

Service Manual



PIONEER®
The future of sound and vision.



ORDER NO.
ARP1953

MULTI-PLAY COMPACT DISC PLAYER

PD-M530

PD-M435

PD-M435-S

PD-M430

PD-M530, PD-M435, PD-M435-S AND PD-M430 HAVE FOLLOWING VERSIONS :

Type	Applicable model				Power requirement	Export destination
	PD-M530	PD-M435	PD-M435-S	PD-M430		
KU	○	○	—	○	AC120V only	U.S.A
KC	○	○	—	○	AC120V only	Canada
HEM	—	○	—	○	AC220V, 240V (switchable) *	European continent
HB	—	○	—	○	AC220V, 240V (switchable) *	United Kingdom
HEWM	—	—	○	—	AC220V, 240V (switchable) *	European continent
SD	○	—	—	○	AC110V, 120V-127V, 220V, 240V (switchable)	Kingdom of Saudi Arabia and General market
SD/G	○	—	—	—	AC110V, 120V-127V, 220V, 240V (switchable)	U.S.Military
HPW	○	—	—	○	AC220V, 240V (switchable) *	Australia

* Change the primary wiring of the power transformer.

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- This manual is applicable to the PD-M530/KU, KC, PD-M435/KU, KC, HEM, HB, PD-M435-S/HEWM, PD-M430/KU, KC, HEM and HB types.
- As to the PD-M530/KC type, refer to page 31.
- As to the PD-M435/KC, HEM, HB and PD-M435-S/HEWM types, refer to page 32.
- As to the PD-M430/KC, HEM and HB types, refer to page 33.
- As to the other types, refer to applicable service manuals.
- The PD-M435-S is the same as the PD-M435 except for color.
- As to the adjustments, refer to the multiple CD model (PD-M530) section of the ADJUSTMENT FOR CD PLAYERS, VOL. 1 (ORDER NO. ARP2000).

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This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

1. SAFETY INFORMATION

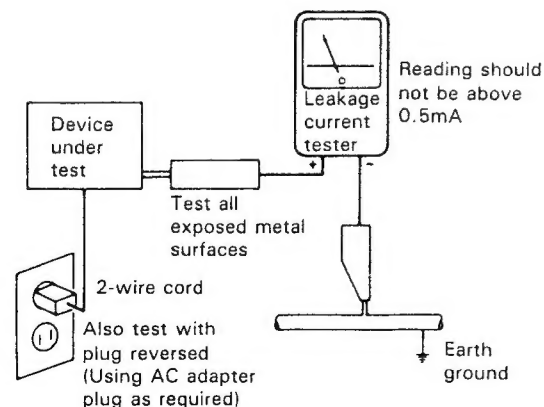
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a Δ on the schematics and on the parts list in this Service Manual. The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

(FOR EUROPEAN MODEL ONLY)

VARO!
AVATTAESSA JA SUOJALUKITUS
OHITETTAESSA OLET ALTTIINA
NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.
ÄLÄ KATSO SÄTEESEEN.



LASER
Kuva 1
Lasersäteilyn
varoituserkki

ADVERSEL!
USYNLIG LASERSTRÅLING VED ÅBNING
NÅR SIKKERHEDSAFBRYDERE ER UDE AF
FUNKTION. UNDGA UDSÆTTELSE FOR
STRÅLING.

VARNING!
OSYNLIG LASERSTRÅLING NÅR DENNA
DEL ÄR ÖPPNAD OCH SPÄRREN
ÄR URKOPPLAD. BETRakta EJ STRÅLEN.

WARNING!
DEVICE INCLUDES LASER DIODE WHICH
EMITS INVISIBLE INFRARED RADIATION
WHICH IS DANGEROUS TO EYES. THERE IS
A WARNING SIGN ACCORDING TO PICTURE
1 INSIDE THE DEVICE CLOSE TO THE LASER
DIODE.



LASER
Picture 1
Warning sign for
laser radiation

IMPORTANT
THIS PIONEER APPARATUS CONTAINS
LASER OF HIGHER CLASS THAN 1.
SERVICING OPERATION OF THE APPARATUS
SHOULD BE DONE BY A SPECIALLY
INSTRUCTED PERSON.

LASER DIODE CHARACTERISTICS
MAXIMUM OUTPUT POWER: 5 mw
WAVELENGTH: 780-785 nm

LABEL CHECK (MULTI MAGAZINE type)

HEM and HB types

HB type

CAUTION
 INVISIBLE LASER
 RADIATION WHEN OPEN,
 AVOID EXPOSURE
 TO BEAM
 PRW1018

HEM type

ADVARSEL
 USYNLIG LASERSTRÅLING VED ÅBNING
 NÅR SIKKERHEDSAFBRYDERE ER UDE AF
 FUNKTION. UNDGA UDSÆTTELSE FOR
 STRÅLING.
 VORSICHT!
 UNSICHTBARE LASERSTRÄHLUNG TRITT AUS,
 WENN DECKEL (ODER KLAPPE) GEÖFFNET IST! NICHT DEM
 STRAHL AUSSETZEN!
 VRW1094

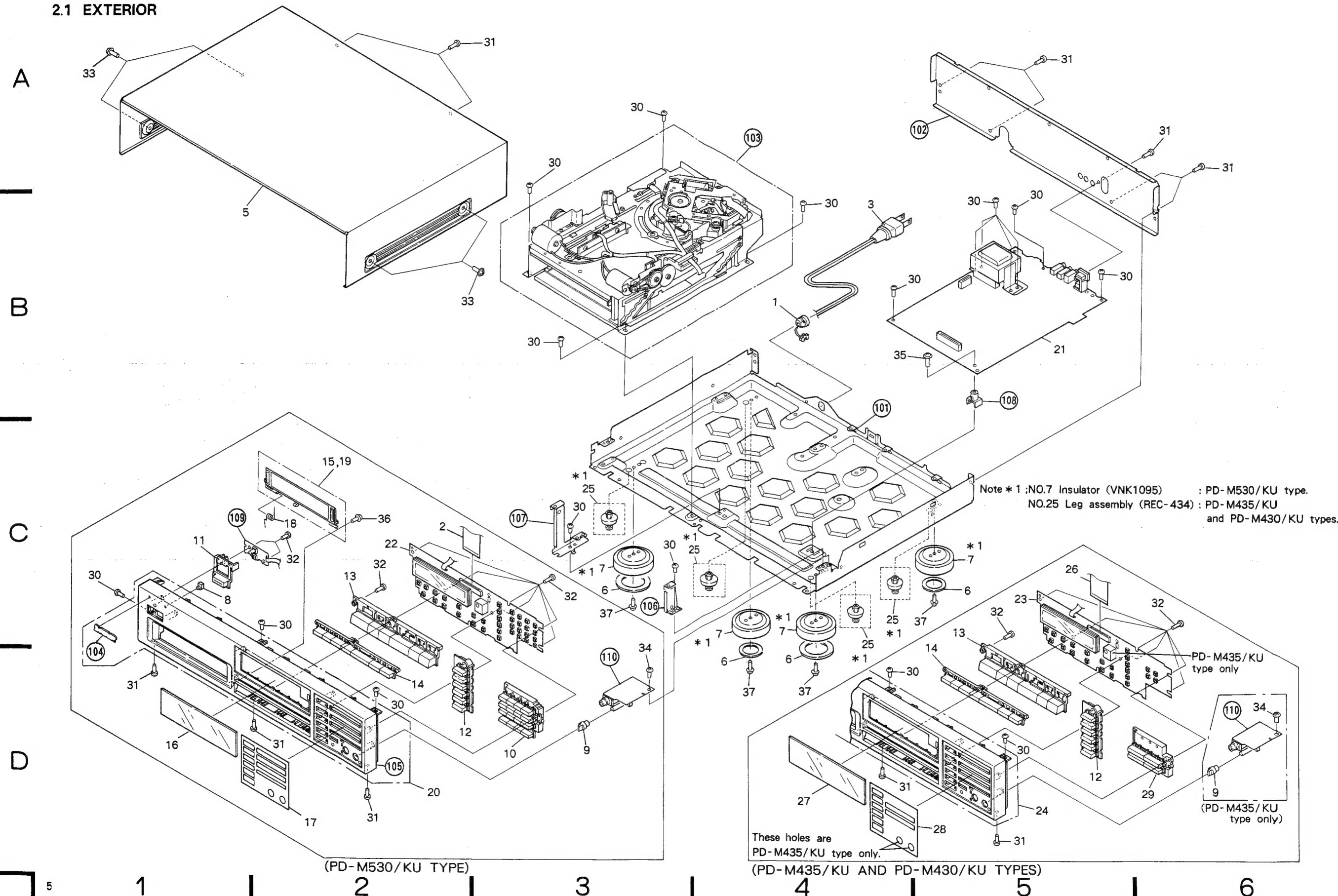
Additional Laser Caution

- Laser Interlock Mechanism**
The ON/OFF (ON : high level, OFF : low level) status of the LPS3 (S601) and LPS4 (S602) switches for detecting the loading state is detected by the system microprocessor, and the design prevents laser diode oscillation when both switches LPS3 and LPS4 are not ON (high level) (clamped state). Thus, interlock will no longer function if switches LPS3 (S601) and LPS4 (S602) are deliberately shorted. Also, in the test mode*, the interlock mechanism does not operate too.
Laser diode oscillation will continue if pins 2 and 3 of CXA1471S (IC101) are connected to ground or pin 20 is connected to high level (ON) or the terminals of Q101 are shorted to each other (fault condition).
- When the cover is opened with the servo mechanism block removed to be turned over, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 or higher laser beam.

*Refer to service manual ARP2000, FOR CD PLAYERS ADJUSTMENT VOL.1.

2. EXPLODED VIEWS AND PARTS LIST

2.1 EXTERIOR



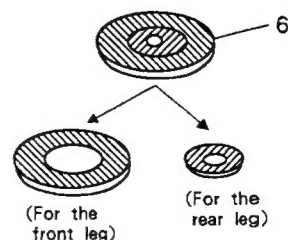
NOTES :

- Parts without part number cannot be supplied.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "◎" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Parts List

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
Δ	1	CM-22C	Strain relief		26	PDD1052	Flexible cable (29P)
	2	PDD1052	Flexible cable (29P) (PD-M530/KU type)		26	PDD1053	Flexible cable (27P) (PD-M430/KU type)
Δ	3	PDG1002	AC power cord		27	PAM1375	Display window (PD-M435/KU type)
Δ	4	PTT1124	Power transformer (AC120V)		27	PAM1389	Display window (PD-M430/KU type)
	5	PYY1131	Bonnet		28	PAM1372	Program name plate (PD-M435/KU type)
	6	PNM1070	Stopper (PD-M530/KU type) *		28	PAM1387	Program name plate (PD-M430/KU type)
	7	VNK1095	Insulator (PD-M530/KU type)		29	PAC1452	Program button (PD-M435/KU and PD-M430/KU types)
	8	AMR1160	LED lens		30	BBZ30P060FMC	Screw
	9	PAC1370	Headphone knob (PD-M530/KU and PD-M435/KU types)		31	BBZ30P080FZK	Screw
	10	PAC1440	Select button (PD-M530/KU type)		32	BBZ30P120FZK	Screw
	11	PAC1453	Power button		33	FBT40P080FZK	Screw
	12	PAC1454	Disc button		34	IBZ30P060FCC	Screw
	13	PAC1455	Function button		35	IBZ30P180FMC	Screw
	14	PAC1456	Mode button		36	IPZ30P060FMC	Screw
	15	PAM1370	Door name plate		37	IBZ30P100FCC	Screw
	16	PAM1375	Display window (PD-M530/KU type)		101		Under base
	17	PAM1388	Program name plate (PD-M530/KU type)		102		Rear base
	18	PBH1022	Door spring		103		Multi mechanism assembly
	19	PNW1532	Door		104		PIONEER badge
	20	PEA1053	Function panel assembly (PD-M530/KU type)		105		Function panel
◎	21	PWM1310	Mother board assembly (PD-M530/KU and PD-M435/KU types)		106		Angle
◎	21	PWM1307	Mother board assembly (PD-M430/KU type)		107		Center angle
◎	22	PWZ1917	Function board assembly (PD-M530/KU type)		108		PCB mold
◎	23	PWZ1916	Function board assembly (PD-M435/KU type)		109		Power switch board assembly
◎	23	PWZ1915	Function board assembly (PD-M430/KU type)		110		Headphone board assembly (PD-M530/KU and PD-M435/KU types)
	24	PEA1054	Function panel assembly (PD-M435/KU type)				
	24	PEA1052	Function panel assembly (PD-M430/KU type)				
	25	REC-434	Leg assembly (PD-M435/KU and PD-M430/KU types)				

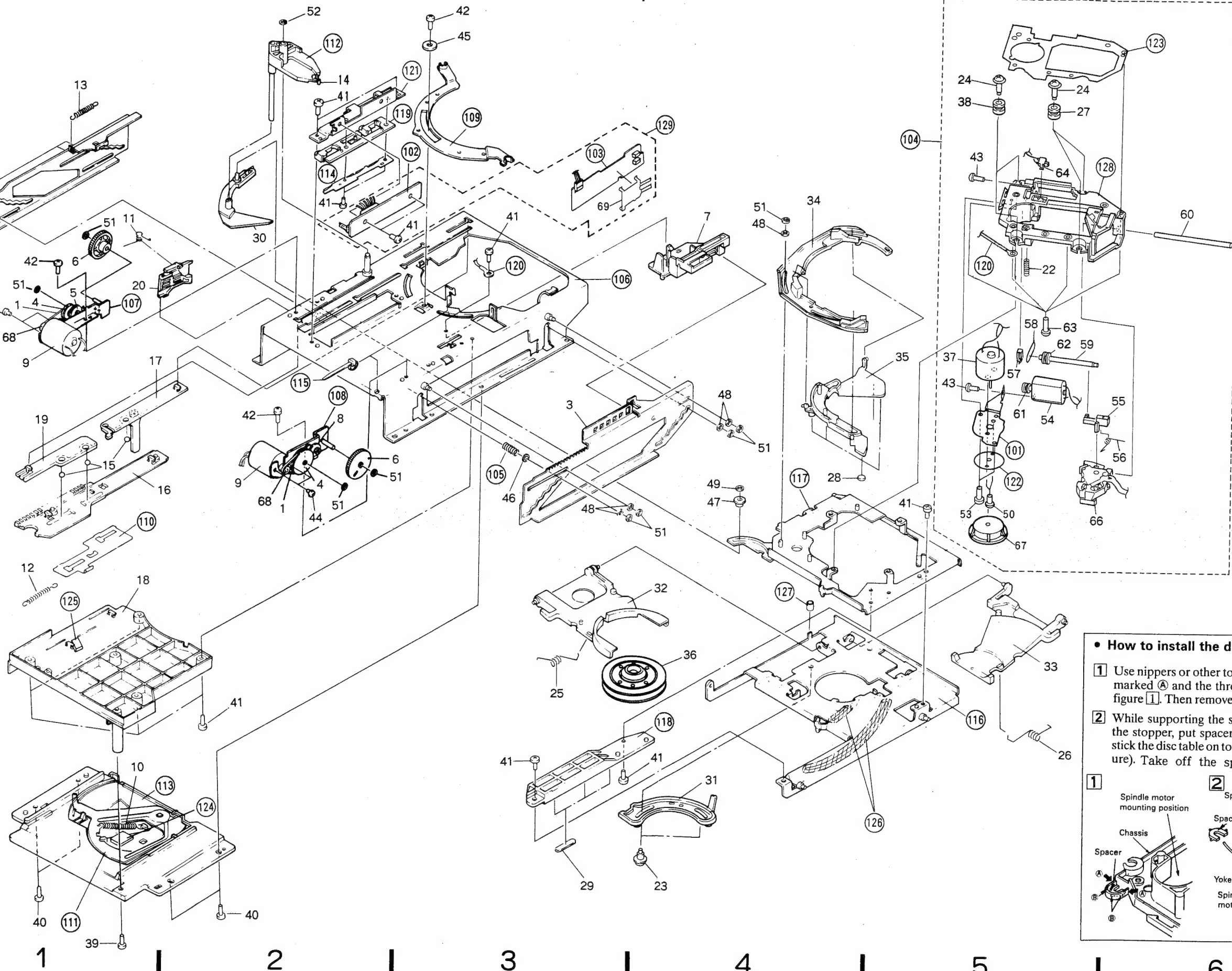
* The stopper consist of the big ring part and the small ring part.
If you stick the stopper to the leg, stick the big ring part to the front leg, and the small ring part to the rear leg.



2.2 MECHANISM SECTION

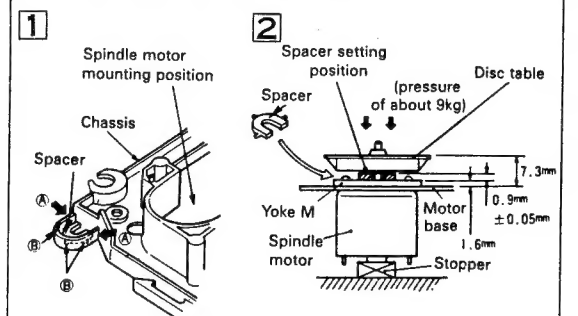
Parts List of Mechanism Section

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1	PEB1138	Belt		49	WT12D032D025	Washer
	2	PNB1219	Stair (L)		50	JFZ20P040FMC	Screw
	3	PNB1220	Stair (R)		51	WT26D047D025	washer
	4	PNW1644	Gear pulley		52	WT31D054D025	Washer
	5	PNW1645	Gear		53	BPZ20P080FZK	Screw
	6	PNW1097	Gear		54	PXM1013	D. C. motor (CARRIAGE)
	7	PNW1640	Select SW base		55	PNW1605	Half nut
	8	PNW1122	Gear		56	PBH1084	Drive spring
	9	PXM1011	Motor (LOADING, DISC SELECT)		57	PBK1057	Plate spring
					58	PEB1072	Belt
	10	PBH-465	Eject spring		59	PLA1003	Drive screw
	11	PBH1014	Lock spring		60	PLA1071	Guide bar
	12	PBH1088	SM spring		61	PNW1634	Motor pulley
	13	PBH1018	Stair spring		62	PNW1066	Pulley
	14	PBK1009	Drive spring		63	PBZ30P080FMC	Screw
	15	PBP-001	Steel ball ϕ 4		64	PSH1003	Slide switch (INSIDE)
	16	PNW1099	Rack		65		• • • • •
	17	PNW1641	Operation plate		66	PEA1030	Pickup assembly
	18	PNW1639	Top guide		67	PEA1035	Disc table assembly
	19	PNW1253	Drive plate		68	PNW1643	Motor pulley
					69	PBK1082	Plate spring
	20	PNW1395	Lock lever				
	21		• • • • •		101		Motor base
	22	PBH1009	Earth spring		102		Switch board assembly
	23	PBA-125	Screw		103		Select board assembly
	24	PBA1002	Screw		104		Servo mechanism assembly
					105		Pressure spring
	25	PBH1016	Clamper spring (T)				
	26	PBH1017	Clamper spring (B)		106		Main chassis
	27	PEB1014	Float rubber		107		Gear angle (L)
	28	PED1001	Cushion (A)		108		Gear angle (R)
	29	PED1002	Cushion (B)		109		Synchronized lever
					110		SM select
	30	PXA1299	Rotary lever unit				
	31	PNW1106	Clamper cam		111		Eject lever
	32	PNW1107	Clamper holder (T)		112		Drive lever
	33	PNW1108	Clamper holder (B)		113		Bottom guide
	34	PNW1110	Pressure cam		114		Actuator spring
					115		Binder
	35	PNW1111	Upper tray				
	36	PNW1448	Clamper		116		Sub chassis
	37	PEA1028	D. C. motor assembly (SPINDLE) (with oil)		117		Upper chassis
					118		Upper guide
	38	PEB1132	Float rubber		119		Actuator
					120		Earth lead unit
	39	BPZ30P100FMC	Screw				
	40	IBZ30P060FCC	Screw		121		SW angle
	41	BBZ30P060FMC	Screw		122		Yoke M
	42	PCZ30P040FMC	Screw		123		Mechanism base
	43	PMZ20P030FMC	Screw		124		Cushion
					125		Cushion rubber 2.5
	44	PMZ30P030FMC	Screw				
	45	WA30F120M100	Washer		126		Axis-sliding sheet
	46	WA32D060D050	Washer		127		Rubber tube
	47	PLA1023	Roller		128		Mechanism chassis
	48	WA31D054D050	Washer		129		Mechanism board assembly



• How to install the disc table

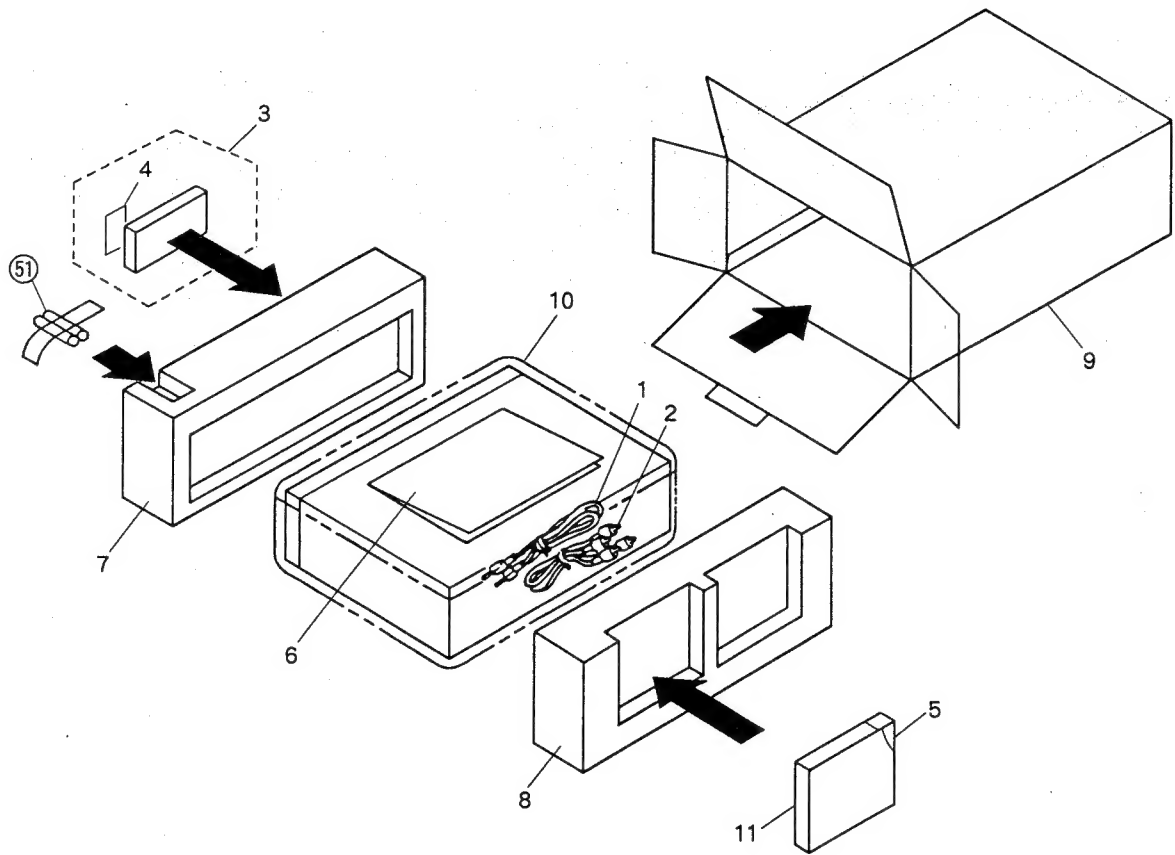
- 1 Use nippers or other tool to cut the two sections marked A and the three sections marked B in figure 1. Then remove the spacer.
- 2 While supporting the spindle motor shaft with the stopper, put spacer on top of yoke M, and stick the disc table on top (takes about 9kg pressure). Take off the spacer.



3. PACKING

Parts List

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1	PDE-319	Connection cord with mini plug		7	PHA1130	Protector F
	2	PDE1001	Connection cord with pin plug		8	PHA1131	Protector R
	3	PWW1049	Remote control unit (PD-M530/KU type)		9	PHG1447	CD packing case (PD-M530/KU type)
	3	PWW1050	Remote control unit (PD-M435/KU type)		9	PHG1448	CD packing case (PD-M435/KU type)
					9	PHG1445	CD packing case (PD-M430/KU type)
	4	PZN1001	Battery cover (PD-M530/KU type)		10	Z23-007	Mirror mat sheet
	4	VNK-634	Battery cover (PD-M435/KU type)		11	PYY1141	PP case
	5	PXA1308	Magazine assembly		51		Battery (PD-M530/KU and PD-M435/KU types)
	6	PRB1126	Operating instructions (English)				
	6	PRB1124	Operating instructions (English) (PD-M435/KU and PD-M430/KU types)				



le

the two sections
ns marked ⑥ in
cer.

motor shaft with
of yoke M, and
about 9kg press-

ig

Disc table
(pressure
of about 9kg)

7.3mm

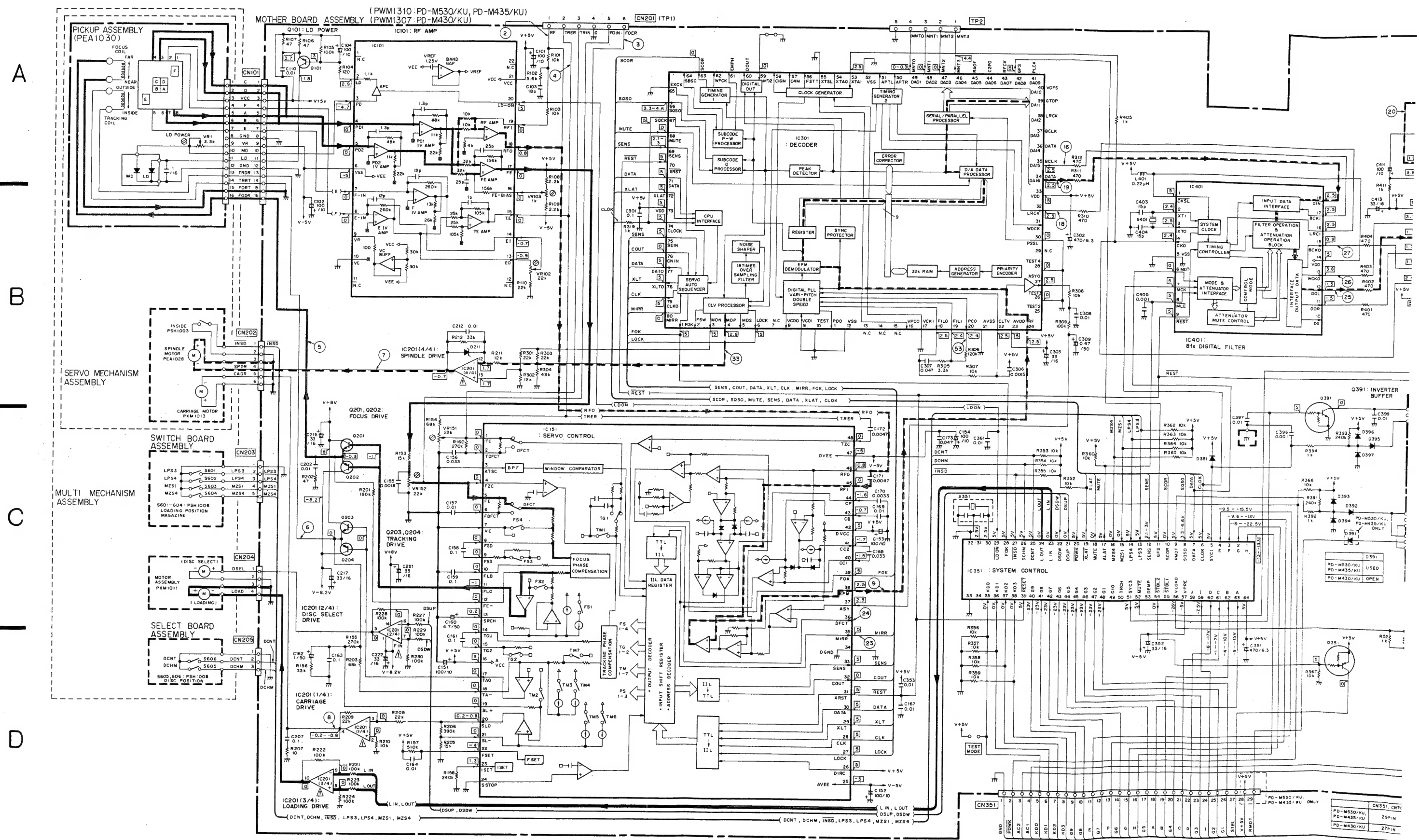
1.9mm
±0.05mm

Motor
base

1.6mm

Stopper

4. SCHEMATIC DIAGRAM



5. P. C. BOARDS CONNECTION DIAGRAM

MOTHER BOARD ASSEMBLY
(PWM1310 : PD-M530/KU, PD-M435/KU)
(PWM1307 : PD-M430/KU)

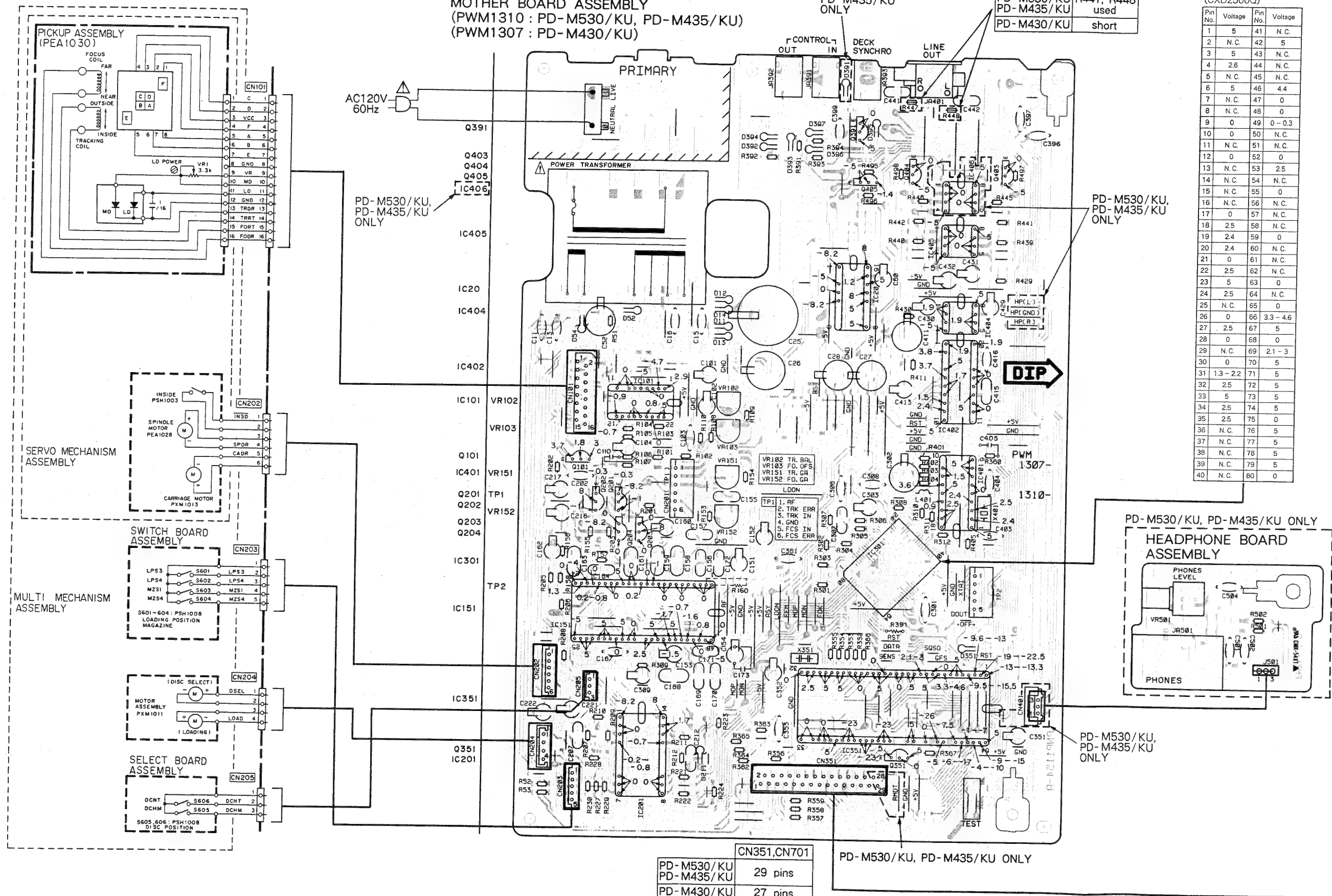
PD-M530/KU,
PD-M435/KU
ONLY

PD-M530/KU
PD-M435/KU
PD-M430/KU

R447, R448
used
short

IC301
(CXD2500Q)

Pin No.	Voltage	Pin No.	Voltage
1	5	41	N.C.
2	N.C.	42	5
3	5	43	N.C.
4	2.6	44	N.C.
5	N.C.	45	N.C.
6	5	46	4.4
7	N.C.	47	0
8	N.C.	48	0
9	0	49	0-0.3
10	0	50	N.C.
11	N.C.	51	N.C.
12	0	52	0
13	N.C.	53	2.5
14	N.C.	54	N.C.
15	N.C.	55	0
16	N.C.	56	N.C.
17	0	57	N.C.
18	2.5	58	N.C.
19	2.4	59	0
20	2.4	60	N.C.
21	0	61	N.C.
22	2.5	62	N.C.
23	5	63	0
24	2.5	64	N.C.
25	N.C.	65	0
26	0	66	3.3-4.6
27	2.5	67	5
28	0	68	0
29	N.C.	69	2.1-3
30	0	70	5
31	1.3-2.2	71	5
32	2.5	72	5
33	5	73	5
34	2.5	74	5
35	2.5	75	0
36	N.C.	76	5
37	N.C.	77	5
38	N.C.	78	5
39	N.C.	79	5
40	N.C.	80	0



7

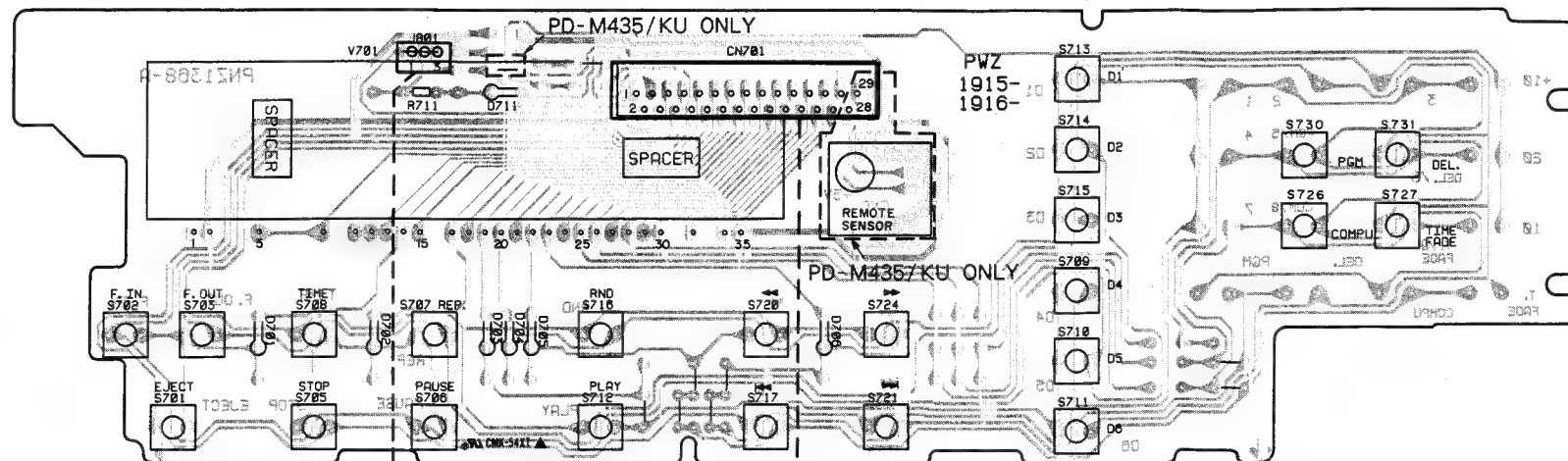
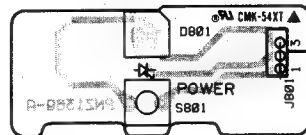
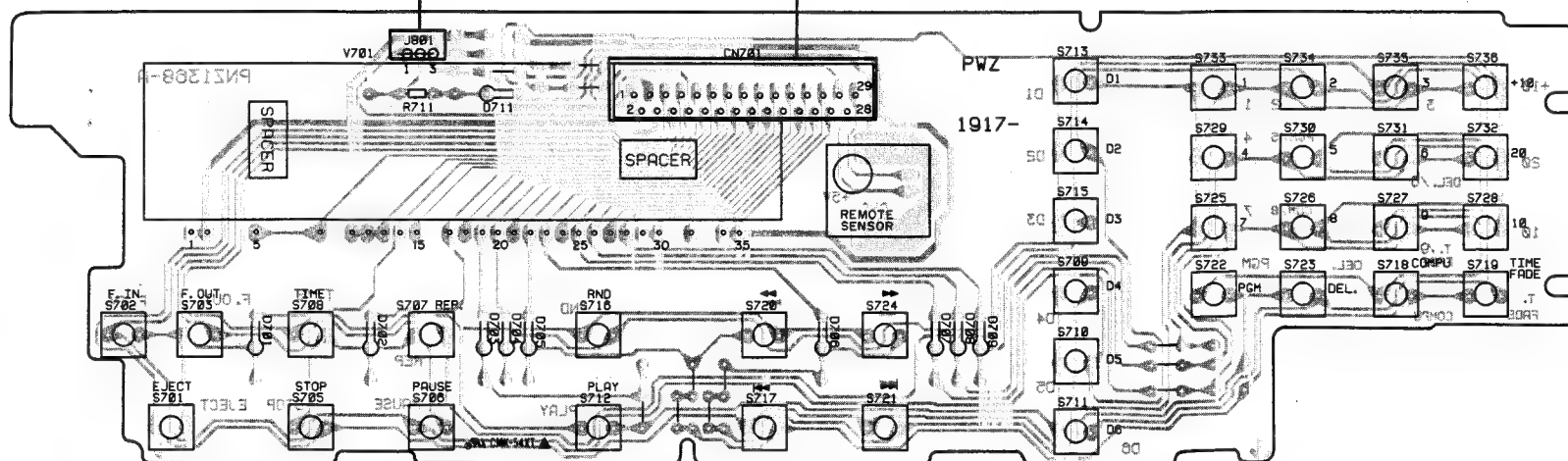
8

9

10

11

PD-M530, PD-M435, PD-M430

FUNCTION BOARD ASSEMBLY
(PWZ1916 : PD-M435/KU) (PWZ1915 : PD-M430/KU)POWER SWITCH
BOARD ASSEMBLYFUNCTION BOARD ASSEMBLY
(PWZ1917 : PD-M530/KU)

P.C.B. pattern diagram indication	Corresponding part symbol	Part name	P.C.B. pattern diagram indication	Corresponding part symbol	Part name
		Transistor			Ceramic capacitor
		FET			Mylar capacitor
		Diode			Styrol capacitor
		Zener diode			Electrolytic capacitor (Non polarized)
		LED			Electrolytic capacitor (Noiseless)
		Varactor			Electrolytic capacitor (Polarized)
		Tact switch			Power capacitor
		Inductor			Semi-fixed resistor
		Coil			Resistor array
		Transformer			Resistor
		Filter			Resonator
					Thermistor

1. This P.C.B. connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the above Table.
3. The capacitor terminal marked with shows negative terminal.
4. The diode marked with shows cathode side.
5. The transistor terminal marked with shows emitter.

A

B

C

D

7

8

9

10

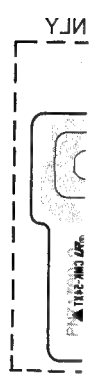
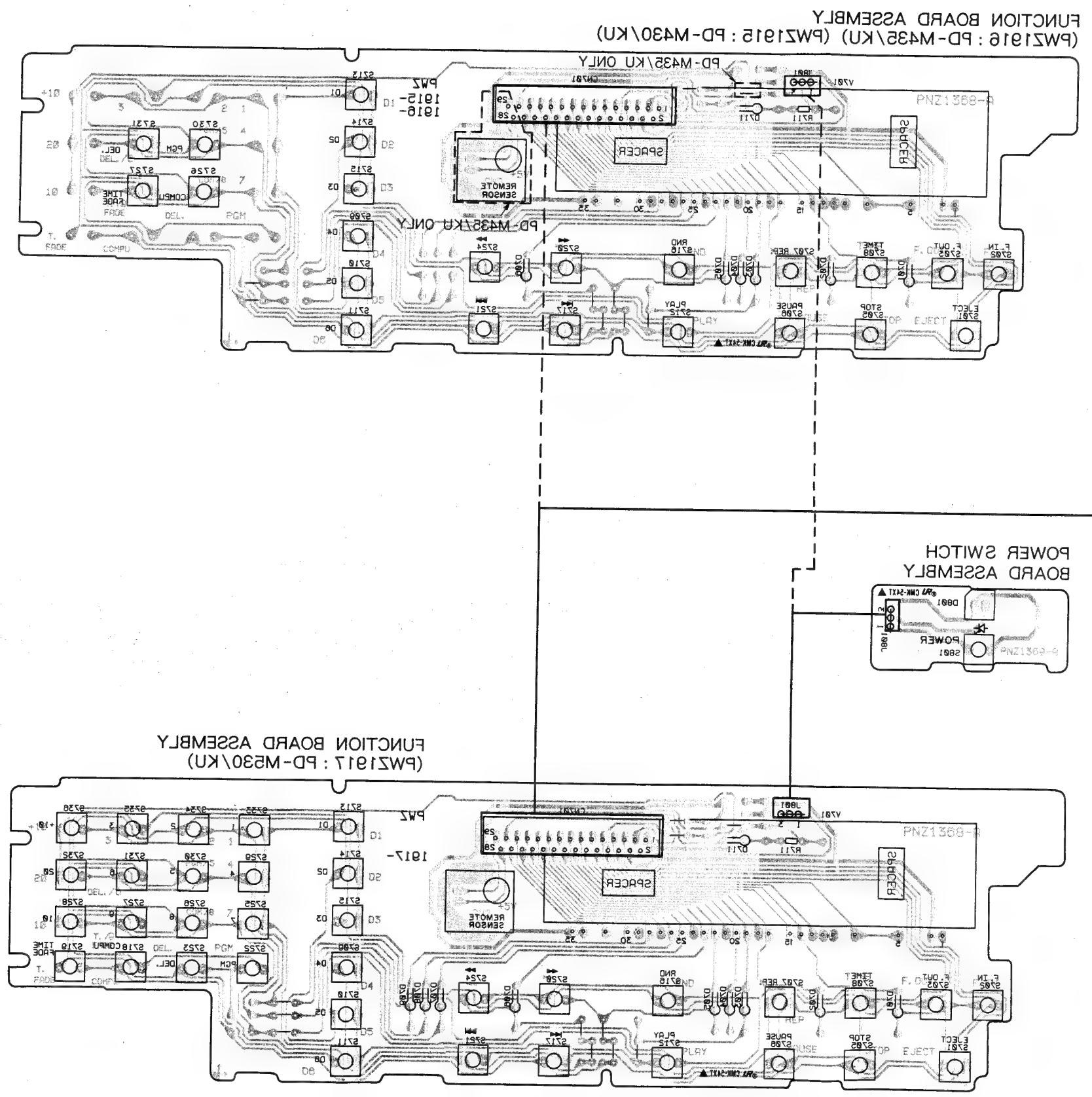
11

12

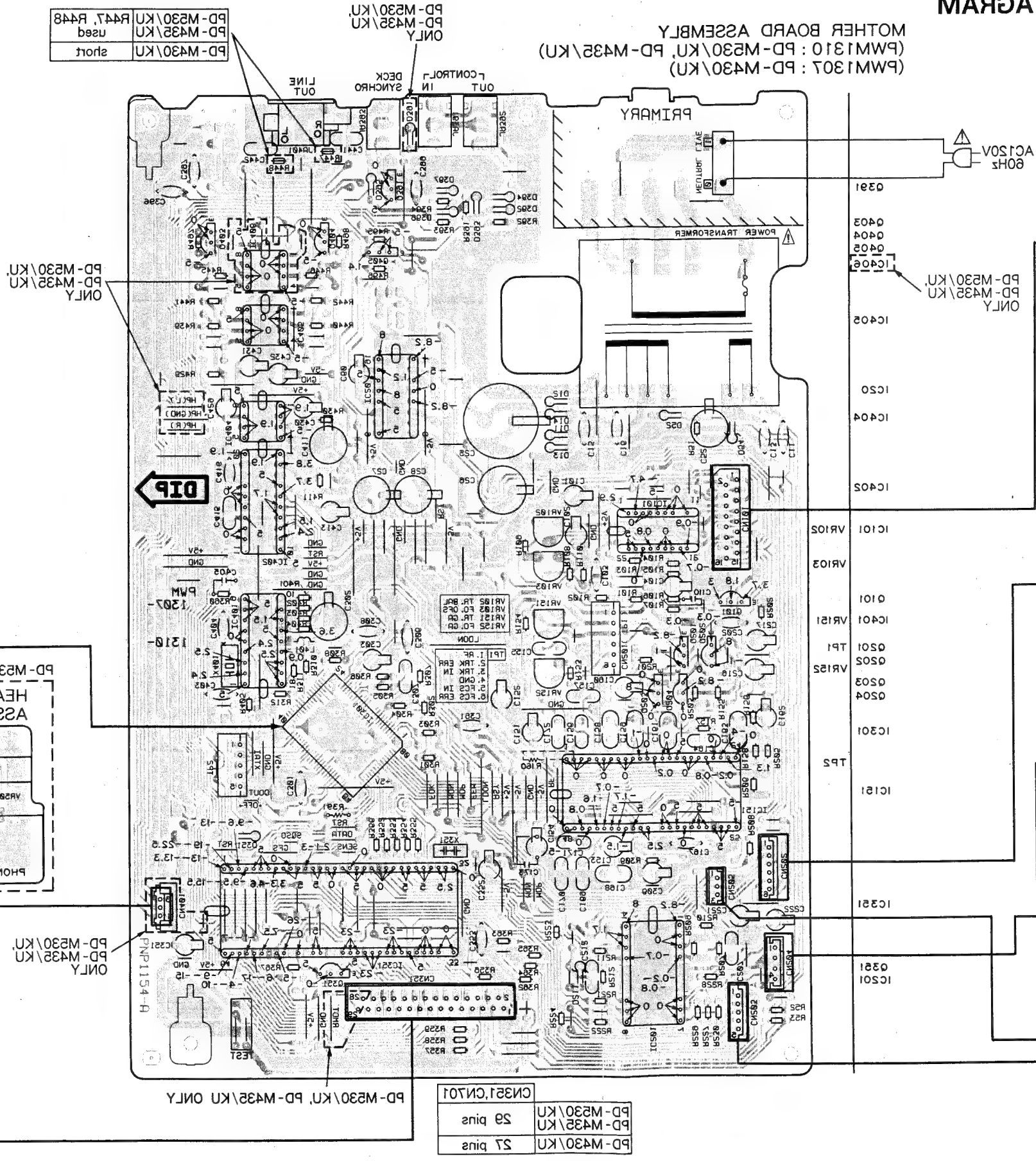
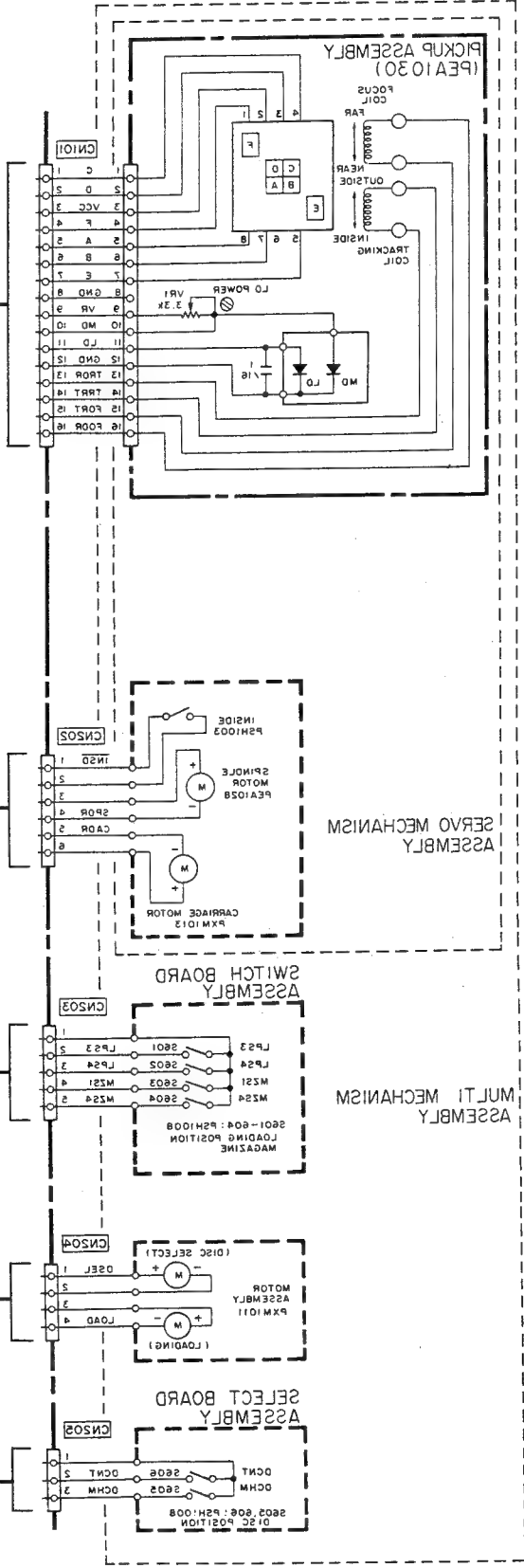
20

A
B
C
D

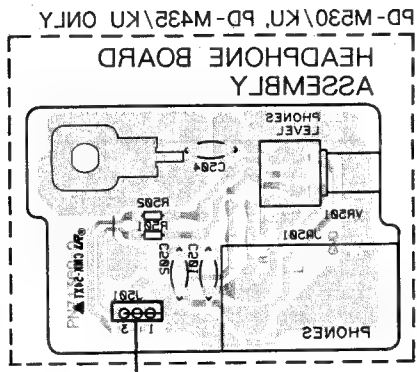
This P.C.B. connection diagram is viewed from the foil side.



5. P. C. BOARDS CONNECTION DIAGRAM



No.	Volts	No.	Volts
1	5	1	5
2	5	2	5
3	5	3	5
4	5	4	5
5	5	5	5
6	5	6	5
7	5	7	5
8	5	8	5
9	5	9	5
10	5	10	5
11	5	11	5
12	5	12	5
13	5	13	5
14	5	14	5
15	5	15	5
16	5	16	5
17	5	17	5
18	5	18	5
19	5	19	5
20	5	20	5
21	5	21	5
22	5	22	5
23	5	23	5
24	5	24	5
25	5	25	5
26	5	26	5
27	5	27	5
28	5	28	5
29	5	29	5
30	5	30	5
31	5	31	5
32	5	32	5
33	5	33	5
34	5	34	5
35	5	35	5
36	5	36	5
37	5	37	5
38	5	38	5
39	5	39	5
40	5	40	5

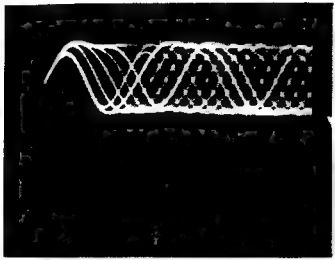
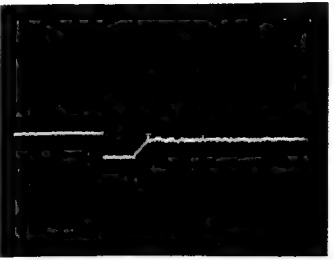
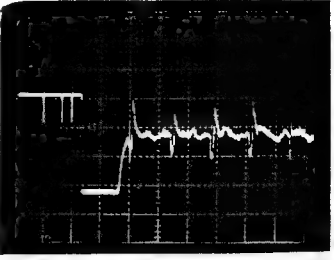
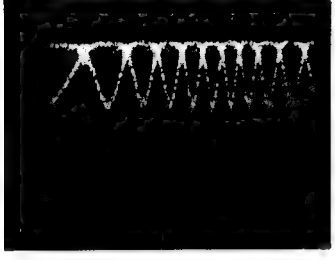

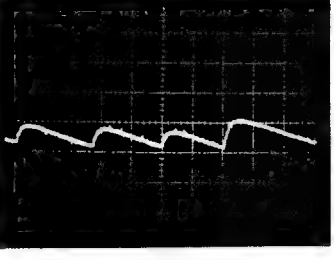
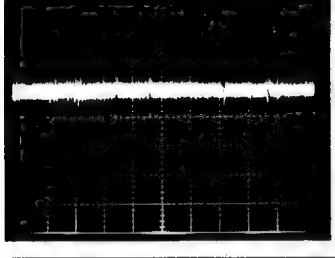
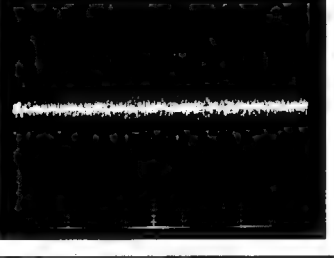
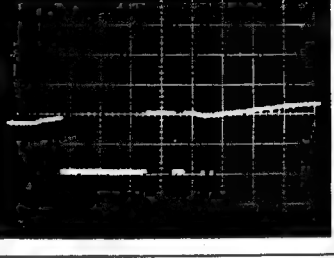
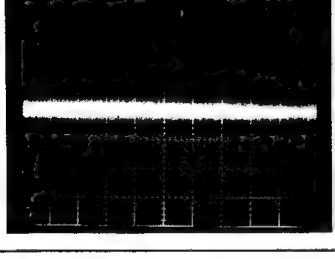
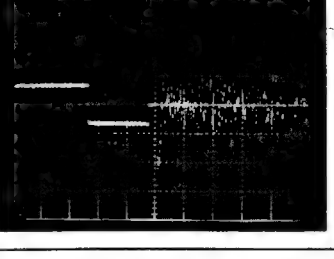
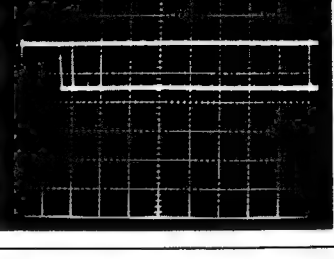
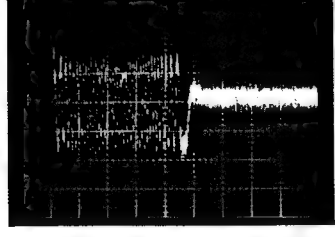
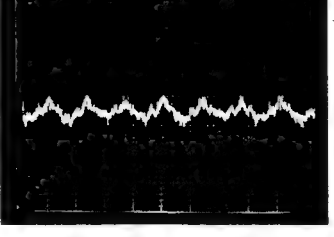


Wave Forms

Note: The encircled numbers denote measuring points in the schematic diagram.

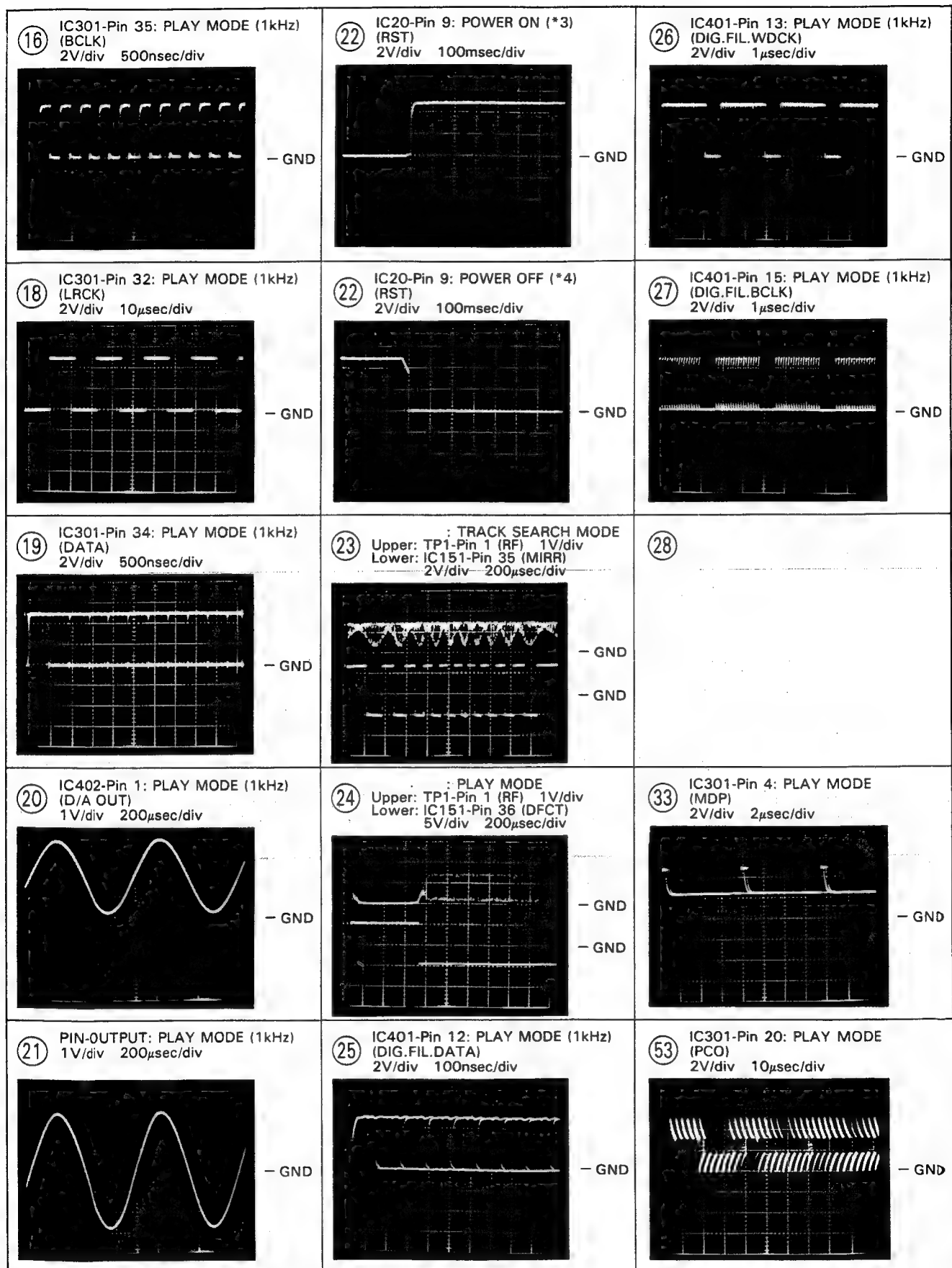
*1 50T-JUMP: After switching to the pause mode, press the manual search key.

*2 FOCUS-IN: Press the key without loading a disc.

<p>② TP1-Pin 1: PLAY MODE (RF) 500mV/div 500nsec/div</p> 	<p>⑤ Q201 Emitter: FOCUS-IN (*2) MODE (FODR) 1V/div 200msec/div</p> 	<p>⑦ IC201-Pin11: TRACK SEARCH MODE (SPDR) 2V/div 50msec/div</p> 
<p>② TP1-Pin 1: TRACK SEARCH MODE (RF) 500mV/div 200μsec/div</p> 	<p>⑤ Q201 Emitter: PLAY MODE (FODR) 1V/div 200msec/div</p> 	<p>⑧ IC201-Pin4 : PLAY MODE (CADR) 1V/div 2S/div</p> 
<p>③ TP1-Pin 6: PLAY MODE (FOER) 100mV/div 10msec/div</p> 	<p>⑥ Q203 Emitter: PLAY MODE (TRDR) 500mV/div 1msec/div</p> 	<p>⑧ IC201-Pin4 : TRACK SEARCH MODE (CADR) 2V/div 200msec/div</p> 
<p>④ TP1-Pin 2: PLAY MODE (TRER) 1V/div 10msec/div</p> 	<p>⑥ Q203 Emitter: 50T-JUMP (*1) MODE (TRDR) 500mV/div 1msec/div</p> 	<p>⑨ IC151-Pin 38: PLAY MODE (EFM) 2V/div 500nsec/div</p> 
<p>④ TP1-Pin 2: 50T-JUMP (*1) MODE (TRER) 1V/div 1msec/div</p> 	<p>⑦ IC201-Pin11: PLAY MODE (SPDR) 1V/div 50msec/div</p> 	

*3 POWER ON : Plug AC cord into AC wall socket.

*4 POWER OFF: Unplug AC cord from AC wall socket.



6. P. C. B's PARTS LIST

NOTES :

- Parts without part number cannot be supplied.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by

J = 5 %, and K = 10 %).

560 Ω → 56 × 10¹ → 561..... RD1/4PS 5 6 1 J

47k Ω → 47 × 10³ → 473..... RD1/4PS 4 7 3 J

0.5 Ω → 0R5..... RN2H 0 R 5 K

1 Ω → 010..... RS1P 0 1 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 × 10¹ → 5621..... RN1/4SR 5 6 2 1 F

Mark	NO	Description	Part NO.	Mark	NO	Description	Part NO.
◎ Mother board Assembly (PWM1310 : PD-M530/KU AND PD-M435/KU TYPES)				C16	CERAMIC CAPACITOR	CKCYF103Z50	
SEMICONDUCTORS				C160	ELECTR. CAPACITOR	CEAS4R7M50	
	IC101	PRE AMP IC	CXA1471S	C161	MYLOR FILM CAPACITOR	CQMA104K50	
	IC151	SERVO IC	CXA1372S	C162	ELECTR. CAPACITOR	CEAS010M50	
△	IC20	REGULATOR IC	M5298P	C163	MYLOR FILM CAPACITOR	CQMA104K50	
△	IC201	OP AMP, IC	TA8449P	C164	MYLOR FILM CAPACITOR	CQMA103K50	
	IC301	EFM DEMODULATION IC	CXD2500Q	C167	CERAMIC CAPACITOR	CKCYF103Z50	
	IC351	MICROCOMPUTER	PD4268	C168	MYLOR FILM CAPACITOR	CQMA333K50	
	IC401	DIGITAL FILTER, IC	SM5840BP	C169	MYLOR FILM CAPACITOR	CQMA103K50	
	IC402	D/A CONVERTER, IC	LC78820-C	C170	MYLOR FILM CAPACITOR	CQMA332J50	
	IC404, 405	OP-AMP IC	NJM4558D-D	C171, 172	MYLOR FILM CAPACITOR	CQMA472K50	
	IC406		M5218AP	C173	CERAMIC CAPACITOR	CKDYF473Z50	
	Q101	TRANSISTOR	2SA854S	C202	CERAMIC CAPACITOR	CKCYF103Z50	
	Q201	TRANSISTOR	2SC3581	C207	SEMICONDUCTIVE CERAMIC	CGCYF104Z25	
	Q202	TRANSISTOR	2SA1399	C212	MYLOR FILM CAPACITOR	CQMA103K50	
	Q203	TRANSISTOR	2SC3581	C216, 217	ELECTR. CAPACITOR	CEAS330M16	
	Q204	TRANSISTOR	2SA1399	C221, 222	ELECTR. CAPACITOR	CEAS330M16	
	Q351	TRANSISTOR	DTA124ES	C25	ELECTR. CAPACITOR	CEAS332M16	
	Q391	TRANSISTOR	DTC124ES	C26	ELECTR. CAPACITOR	CEAS222M16	
	Q403	TRANSISTOR	2SD2144S	C27	ELECTROLYTIC CAPACIT	CEAS471M6R3	
	Q404	TRANSISTOR	2SD2144S	C28	ELECTR. CAPACITOR	CEAS101M10	
	Q405	TRANSISTOR	DTC124ES	C301	MYLOR FILM CAPACITOR	CQMA104K50	
△	D11-14	DIODE	11ES2	C302	ELECTROLYTIC CAPACIT	CEAS471M6R3	
	D211	ZENNER DIODE	MTZJ6. 2B	C303	ELECTR. CAPACITOR	CEAS330M16	
	D351	DIODE	1SS254	C306	CERAMIC CAPACITOR	CKCYB152K50	
	D391-397	DIODE	1SS254	C307	MYLOR FILM CAPACITOR	CQMA473J50	
△	D52	DIODE	11ES2	C308	MYLOR FILM CAPACITOR	CQMA103K50	
	D54	ZENNER DIODE	MTZJ18B	C309	ELECTR. CAPACITOR	CEASR47M50	
COIL				C351	ELECTROLYTIC CAPACIT	CEAS471M6R3	
	L401		LAUR22K	C352	ELECTR. CAPACITOR	CEAS330M16	
CAPACITORS				C353, 361	CERAMIC CAPACITOR	CKCYF103Z50	
	C101, 102	ELECTR. CAPACITOR	CEAS101M10	C396	CERAMIC CAPACITOR	CKDYB102K50	
	C103	CERAMIC CAPACITOR	CCCCH180J50	C397, 399	CERAMIC CAPACITOR	CKCYF103Z50	
	C104	ELECTR. CAPACITOR	CEAS101M10	C403, 404	CERAMIC CAPACITOR	CCCCH150J50	
	C11, 110	CERAMIC CAPACITOR	CKDYF103Z50	C405	CERAMIC CAPACITOR	CKDYB102K50	
	C13, 15	CERAMIC CAPACITOR	CKCYF103Z50	C411	ELECTR. CAPACITOR	CEAS101M10	
	C151-154	ELECTR. CAPACITOR	CEAS101M10	C413	ELECTR. CAPACITOR	CEAS330M16	
	C155	MYLOR FILM CAPACITOR	CQMA182J50	C415	CERAMIC CAPACITOR	CKCYF103Z50	
	C156	MYLOR FILM CAPACITOR	CQMA333K50	C416	CERAMIC CAPACITOR	CKCYF473Z50	
	C157	MYLOR FILM CAPACITOR	CQMA103K50	C429, 430	ELECTR. CAPACITOR	CEAS220M25	
	C158, 159	MYLOR FILM CAPACITOR	CQMA104K50	C431, 432	ELECTR. CAPACITOR	CEAS330M16	
				C441, 442	MYLOR FILM CAPACITOR	CQMA152J50	
				C52	ELECTR. CAPACITOR	CEAS101M35	
				C60	ELECTR. CAPACITOR	CEAS010M50	

Mark	NO	Description	Part NO.
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RESISTORS

VR102	Semi-fixed (22K Ω)	VRTB6VS223
VR103	Semi-fixed (1k Ω)	VRTB6VS102
VR151, VR152	Semi-fixed (22k Ω)	VRTB6VS223
Other resistors		RD1/6PM□□□J

OTHERS

X351	CERAMIC RESONATOR	VSS1014
X401	XTAL RES (OSC)	PSS1006
JA391, 392	JACK/12V (CONTROL IN/OUT)	PKN1004
JA393	Mini jack(DECK SYNCHRO)	RKN1014
JA401	2P pin jack(LINE OUT)	PKB1009
CN101	CONNECTOR	52045-1610
CN351	CONNECTOR	HLEM29S-1

◎ Mother Board Assembly (PWM1307 : PD-M430/KU TYPE)

SEMICONDUCTORS

△	IC101	PRE AMP IC	CXA1471S
	IC151	SERVO IC	CXA1372S
△	IC20	REGULATOR IC	M5298P
	IC201	OP AMP, IC	TA8449P
	IC301	EFM DEMODULATION IC	CXD2500Q
	IC351	MICROCOMPUTER	PD4268
	IC401	DIGITAL FILTER, IC	SM5840BP
	IC402	D/A CONVERTER, IC	LC78820-C
	IC404, 405	OP-AMP IC	NJM4558D-D
	Q101	TRANSISTOR	2SA854S
	Q201	TRANSISTOR	2SC3581
	Q202	TRANSISTOR	2SA1399
	Q203	TRANSISTOR	2SC3581
	Q204	TRANSISTOR	2SA1399
	Q351	TRANSISTOR	DTA124ES
	Q391	TRANSISTOR	DTC124ES
	Q403, 404	TRANSISTOR	2SD2144S
	Q405	TRANSISTOR	DTC124ES
△	D11-14	DIODE	11ES2
	D211	ZENNER DIODE	MTZJ6. 2B
	D351	DIODE	1SS254
	D392-397	DIODE	1SS254
△	D52	DIODE	11ES2
	D54	ZENNER DIODE	MTZJ18B

COIL

L401	LAUR22K
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CAPACITORS

C101, 102	ELECTR. CAPACITOR	CEAS101M10
C103	CERAMIC CAPACITOR	CCCCH180J50
C104	ELECTR. CAPACITOR	CEAS101M10
C11, 110	CERAMIC CAPACITOR	CKDYF103Z50
C13, 15	CERAMIC CAPACITOR	CKCYF103Z50
C151-154	ELECTR. CAPACITOR	CEAS101M10
C155	MYLOR FILM CAPACITOR	CQMA182J50
C156	MYLOR FILM CAPACITOR	CQMA333K50
C157	MYLOR FILM CAPACITOR	CQMA103K50
C158, 159	MYLOR FILM CAPACITOR	CQMA104K50

Mark	NO	Description	Part NO.
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C16	CERAMIC CAPACITOR	CKCYF103Z50
C160	ELECTR. CAPACITOR	CEAS4R7M50
C161	MYLOR FILM CAPACITOR	CQMA104K50
C162	ELECTR. CAPACITOR	CEAS010M50
C163	MYLOR FILM CAPACITOR	CQMA104K50

C164	MYLOR FILM CAPACITOR	CQMA103K50
C167	CERAMIC CAPACITOR	CKCYF103Z50
C168	MYLOR FILM CAPACITOR	CQMA333K50
C169	MYLOR FILM CAPACITOR	CQMA103K50
C170	MYLOR FILM CAPACITOR	CQMA332J50

C171, 172	MYLOR FILM CAPACITOR	CQMA472K50
C173	CERAMIC CAPACITOR	CKDYF473Z50
C202	CERAMIC CAPACITOR	CKCYF103Z50
C207	SEMICONDUCTIVE CERAMIC	CGCYF104Z25
C212	MYLOR FILM CAPACITOR	CQMA103K50

C216, 217	ELECTR. CAPACITOR	CEAS330M16
C221, 222	ELECTR. CAPACITOR	CEAS330M16
C25	ELECTR. CAPACITOR	CEAS332M16
C26	ELECTR. CAPACITOR	CEAS222M16
C27	ELECTROLYTIC CAPACIT	CEAS471M6R3

C28	ELECTR. CAPACITOR	CEAS101M10
C301	MYLOR FILM CAPACITOR	CQMA104K50
C302	ELECTROLYTIC CAPACIT	CEAS471M6R3
C303	ELECTR. CAPACITOR	CEAS330M16
C306	CERAMIC CAPACITOR	CKCYB152K50

C307	MYLOR FILM CAPACITOR	CQMA473J50
C308	MYLOR FILM CAPACITOR	CQMA103K50
C309	ELECTR. CAPACITOR	CEASR47M50
C351	ELECTROLYTIC CAPACIT	CEAS471M6R3
C352	ELECTR. CAPACITOR	CEAS330M16

C353, 361	CERAMIC CAPACITOR	CKCYF103Z50
C396	CERAMIC CAPACITOR	CKDYB102K50
C397, 399	CERAMIC CAPACITOR	CKCYF103Z50
C403, 404	CERAMIC CAPACITOR	CCCCH150J50
C405	CERAMIC CAPACITOR	CKDYB102K50

C411	ELECTR. CAPACITOR	CEAS101M10
C413	ELECTR. CAPACITOR	CEAS330M16
C415	CERAMIC CAPACITOR	CKCYF103Z50
C416	CERAMIC CAPACITOR	CKCYF473Z50
C429, 430	ELECTR. CAPACITOR	CEAS220M25
C431, 432	ELECTR. CAPACITOR	CEAS330M16

C441, 442	MYLOR FILM CAPACITOR	CQMA152J50
C52	ELECTR. CAPACITOR	CEAS101M35
C60	ELECTR. CAPACITOR	CEAS010M50

RESISTORS

VR102	Semi-fixed(22k Ω)	VRTB6VS223
VR103	Semi-fixed(1k Ω)	VRTB6VS102
VR151, 152	Semi-fixed(22k Ω)	VRTB6VS223
Other resistors		RD1/6PM□□□J

OTHERS

X351	CERAMIC RESONATOR	VSS1014
X401	XTAL RES (OSC)	PSS1006
JA391, 392	JACK/12V (CONTROL IN/OUT)	PKN1004
JA393	Mini jack(DECK SYNCHRO)	RKN1014
JA401	2P Pin jack(LINE OUT)	PKB1009
CN101	CONNECTOR	52045-1610
CN351	CONNECTOR	HLEM27S-1

Mark	NO	Description	Part NO.
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●Function Board Assembly
(PWZ1917 : PD-M530/KU TYPE)

SEMICONDUCTORS

D701-709	DIODE	1SS254
D711	DIODE	1SS254

SWITCHES

S701-703, 705-736	Tact switch (EJECT(▲), AUTO FADER(↗ IN, OUT ↘), STOP/CLEAR(■), PAUSE (), REPEAT, TIME, DISC NUMBER (1-6), PLAY(▶), RANDOM PLAY, TRACK(◀◀,▶▶), MANUAL(▶▶,◀◀), PGM, DELETE, COMPU PGM EDIT, TIME FADE EDIT, TRACK NUMBER (1-10, +10, ≥ 20)	PSG1006
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RESISTOR

R711	CARBONFILM RESISTOR	RD1/6PM471J
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OTHERS

V701	FL INDICATOR TUBE	PEL1037
CN701	CONNECTOR REMOTE SENSOR	HLEM29R-1 SBX1610-51

●Function Board Assembly
(PWZ1916 : PD-M435/KU TYPE)

SEMICONDUCTORS

D701-706	DIODE	1SS254
D711	DIODE	1SS254

SWITCHES

S701-703, 705-717, 720, 721, 724, S726, 727, 730, 731	Tact switch (EJECT(▲), AUTO FADER(↗ IN, OUT ↘), STOP/CLEAR(■), PAUSE (), REPEAT, TIME, DISC NUMBER (1-6), PLAY(▶), RANDOM PLAY, TRACK(◀◀,▶▶), MANUAL(▶▶,◀◀), PGM, DELETE, COMPU PGM EDIT, TIME FADE EDIT	PSG1006
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RESISTOR

R711	CARBONFILM RESISTOR	RD1/6PM471J
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OTHERS

V701	FL INDICATOR TUBE	PEL1037
CN701	CONNECTOR REMOTE SENSOR	HLEM29R-1 SBX1610-51

●Function Board Assembly
(PWZ1915 : PD-M430/KU TYPE)

SEMICONDUCTORS

D701-706	DIODE	1SS254
D711	DIODE	1SS254

Mark	NO	Description	Part NO.
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SWITCHES

S701-703, 705-717, 720, 721, 724, S726, 727, 730, 731	Tact switch (EJECT(▲), AUTO FADER(↗ IN, OUT ↘), STOP/CLEAR(■), PAUSE (), REPEAT, TIME, DISC NUMBER (1-6), PLAY(▶), RANDOM PLAY, TRACK(◀◀,▶▶), MANUAL(▶▶,◀◀), PGM, DELETE, COMPU PGM EDIT, TIME FADE EDIT	PSG1006
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RESISTOR

R711	CARBONFILM RESISTOR	RD1/6PM471J
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OTHERS

V701	FL INDICATOR TUBE	PEL1037
CN701	CONNECTOR	HLEM27R-1

Power switch Board Assembly

SEMICONDUCTOR

D801		SLH-56VC3H
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SWITCH

S801	SWITCH(POWER)	PSG1006
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Headphone Board Assembly
(PD-M530/KU AND PD-M435/KU
TYPES ONLY)

CAPACITORS

C501, 502	CERAMIC CAPACITOR	CKCYB102K50
C504	CERAMIC CAPACITOR	CKCYF473Z50

RESISTORS

VR501	VARIABLE REISITOR (PHONES LEVEL)	PCS1003
R501, 502	CARBON FILM RESISTOR	RD1/6PM470J

OTHERS

JA501	Headphone jack(PHONES)	RKN1001
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SELECT Board Assembly

SWITCHES

S605, 606	Push switch (DISC POSITION)	PSH1008
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SWITCH Board Assembly

SWITCHES

S601-604	Push switch (LOADING POSITION, MAGAZINE)	PSH1008
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7. IC INFORMATION

■ LC78820-C (IC402)

D/A CONVERTER

● Pin functions

No.	Pin name	Function	No.	Pin name	Function
1	CH1OUT	CH1 output (Lch)	9	SYSCLK	System clock input. (This signal is a main clock for operating the LSI and switch the interface by MODE (MODE 1 and 2).
2	VrefH1	Reference voltage "H" input 1	10	VDD	+5V power supply
3	VrefH2	Reference voltage "H" input 2	11	TSTOUT	Output for TEST. Open at the normal state.
4	VDD	+5V power supply	12	TST1	Input for TEST. GND at the normal state.
5	WCLK	Word clock input. Generate the internal signal for latch the digital audio data (DATAL and DATAR)	13	MODE1	Switch the interface
			14	MODE2	
6	DATAL	Digital audio data input (Lch). Bit serial input from the MSB. (Data is 2's complement type.)	15	GND	GND
7	DATAR	Digital audio data input (Rch). Bit serial input from the MSB. (Data is 2's complement type.)	16	VrefL1	Reference voltage "L" input 1.
8	BCLK	Bit clock input for reading the digital audio data with bit serial to the LSI internal.	17	GND	GND
			18	VrefL2	Reference voltage "L" input 2.
			19	NC	No connection.
			20	CH2OUT	CH2 output (Rch).

8. FOR PD-M530/KC, PD-M435/KC, HEM, HB, PD-M435-S/HEWM, PD-M430/KC, HEM AND HB TYPES

NOTES :

- Parts without part number cannot be supplied.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω \rightarrow 56 $\times 10^1 \rightarrow$ 561 RD1/4PS $\boxed{5}\boxed{6}\boxed{1}$ J

47k Ω \rightarrow 47 $\times 10^3 \rightarrow$ 473 RD1/4PS $\boxed{4}\boxed{7}\boxed{3}$ J

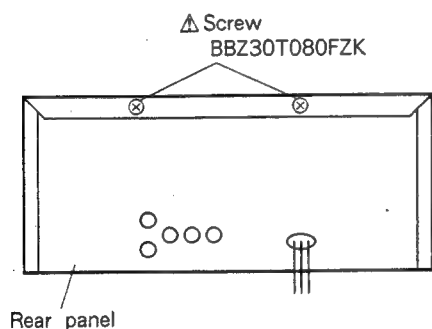
0.5 Ω \rightarrow 0R5 RN2H $\boxed{0}\boxed{R}\boxed{5}$ K

1 Ω \rightarrow 010 RS1P $\boxed{0}\boxed{1}\boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω \rightarrow 562 $\times 10^1 \rightarrow$ 5621 RN1/4SR $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

CAUTION : About the locking screw of the bonnet for the PD-M435/HB and PD-M430/HB types.



① As to the PD-M435/HB and PD-M430/HB types, the locking screw (Part No. BBZ30T080FZK) for install the bonnet should be used.

② When the locking screw is removed or tightened, use the "TORX SCREW DRIVER, SIZE T10"

8.1 FOR PD-M530/KC TYPE

CONTRAST OF MISCELLANEOUS PARTS

The PD-M530/KC type is the same as the PD-M530/KU type with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		PD-M530/KU type	PD-M530/KC type	
	CD packing case	PHG1447	PHG1449	For packing
	Operating instructions (French)	. . . . .	PRC1026	

Note : As to the SCHEMATIC DIAGRAM and P.C. BOARDS CONNECTION DIAGRAM, refer to those of PD-M530 /KU type.

8.2 FOR PD-M435/KC, HEM, HB AND PD-M435-S/HEWM TYPES

CONTRAST OF MISCELLANEOUS PARTS

The PD-M435/KC, HEM, HB and PD-M435-S/HEWM types are the same as the PD-M435/KU type with the exception of the following sections.

Mark	Symbol & Description	Part No.					Remarks
		PD-M435 /KU type	PD-M435 /KC type	PD-M435 /HEM type	PD-M435 /HB type	PD-M435-S /HEWM type	
⊙	Mother board assembly	PWM1310	PWM1310	PWM1312	PWM1312	PWM1312	For packing
⚠	Power transformer (AC120V)	PTT1124	PTT1124	PTT1125	PTT1125	PTT1125	
⚠	Power transformer (AC220V,240V)	PDG1002	PDG1002	PDG1003	PDG1004	PDG1003	
⚠	AC power cord	CM-22C	CM-22C	CM-22B	CM-22B	CM-22B	
⚠	Strain relief	PHG1448	PHG1444	PHG1444	PHG1444	PHG1514	
	CD packing case	PDE-319	PDE-319	PNM1070	PNM1070	PNM1070	
	Connection cord with mini plug	REC-434	REC-434	PNM1070	PNM1070	PNM1070	
	Leg assembly	REC-434	REC-434	PNM1070	PNM1070	PNM1070	
	Insulator	PNM1070	PNM1070	PNM1070	PNM1070	PNM1070	
	Stopper	PRB1124	PRB1124	PRB1124	PRB1124	PRB1124	
	Operating instructions (English)	PRC1025	PRC1025	PRE1121	PRE1121	PRE1121	
	Operating instructions (French)						
	Operating instructions (English/French/Dutch/Italian/German/Swedish/Spanish/Portgausee)						
	Display window	PAM1375	PAM1375	PAM1417	PAM1417	PAM1417	
	Headphone knob	PAC1370	PAC1370	PAC1370	PAC1370	PAC1402	
	Program button	PAC1452	PAC1452	PAC1452	PAC1452	PAC1500	For bonnet
	Program button S	PAC1453	PAC1453	PAC1453	PAC1453	PAC1487	
	Power button	PAC1453	PAC1453	PAC1453	PAC1453	PAC1487	
	Power button S	PAC1454	PAC1454	PAC1454	PAC1454	PAC1490	
	Disc button	PAC1455	PAC1455	PAC1455	PAC1455	PAC1489	
	Disc button S	PAC1456	PAC1456	PAC1456	PAC1456	PAC1488	
	Function button	PAM1370	PAM1370	PAM1370	PAM1370	PAM1421	
	Function button S	PAM1372	PAM1372	PAM1372	PAM1372	PAM1423	
	Mode button	PEA1054	PEA1054	PEA1054	PEA1054	PEA1079	
	Mode button S	PNW1532	PNW1532	PNW1532	PNW1532	PNW1751	
	Door name plate	PYY1131	PYY1131	PYY1131	PYY1131	PYY1138	
	Door name plate S						
	Program name plate						
	Program name plate S						
	Function panel assembly						
	Door						
	Door S						
⚠	Bonnet	BBZ30T080FZK					
⚠	Screw						

Note : As to the SCHEMATIC DIAGRAM and P.C.BOARDS CONNECTION DIAGRAM of PD-M435/KC type, refer to those of PD-M435/KU type.

MOTHER BOARD ASSEMBLY

The Mother board assembly (PWM1312) is the same as the Mother board assembly (PWM1310) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		PWM1310	PWM1312	
⚠	IC30	11ES2	ICP-N10	
⚠	D11 - D14	1SS254	2W02-5008-L	
⚠	D25	RD1/6PM244J		
	D391 - D394			
	R391	RD1/6PM102J		
	R392	PKN1004		
	JA391,JA392 (CONTROL IN/OUT)			

8.3 FOR PD-M430/KC, HEM, AND HB TYPES

CONTRAST OF MISCELLANEOUS PARTS

The PD-M430/KC, HEM and HB types are the same as the PD-M430/KU type with the exception of the following sections.

Mark	Symbol & Description	Part No.				Remarks
		PD-M430 /KU type	PD-M430 /KC type	PD-M430 /HEM type	PD-M430 /HB type	
●	Mother board assembly	PWM1307	PWM1307	PWM1309	PWM1309	
	Headphone board assembly	• • • • •	• • • • •	Non supply	Non supply	
△	Power transformer (AC120V)	PTT1124	PTT1124	• • • • •	• • • • •	
△	Power transformer (AC220V,240V)	• • • • •	• • • • •	PTT1125	PTT1125	
△	AC power cord	PDG1002	PDG1002	PDG1008	PDG1009	
△	Strain relief	CM-22C	CM-22C	CM-22B	CM-22B	
	Leg assembly	REC-434	REC-434	• • • • •	• • • • •	
	Insulator	• • • • •	• • • • •	VNK1095	VNK1095	
	Stopper	• • • • •	• • • • •	PNM1070	PNM1070	
	Operating instructions (English)	PRB1124	PRB1124	• • • • •	PRB1124	
	Operating instructions (French)	• • • • •	PRC1025	• • • • •	• • • • •	
	Operating instructions (English/French/Dutch/Italian/ German/Swedish/Spainis /Portgauese)	• • • • •	• • • • •	PRE1121	• • • • •	
	CD packing case	PHG1445	PHG1446	PHG1446	PHG1446	For packing
	Program name plate	PAM1387	PAM1387	PAM1420	PAM1420	
	Display window	PAM1389	PAM1389	PAM1418	PAM1418	
	Headphone knob	• • • • •	• • • • •	PAC1370	PAC1370	
△	Screw	• • • • •	• • • • •	• • • • •	BBZ30T080FZK	For bonnet

Note : As to the SCHEMATIC DIAGRAM and P.C.BOARDS CONNECTION DIAGRAM of PD-M430/KC type, refer to those of PD-M430/KU type.

MOTHER BOARD ASSEMBLY

The Mother board assembly (PWM1309) is the same as the Mother board assembly (PWM1307) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		PWM1307	PWM1309	
△	IC30	• • • • •	ICP-N10	
	IC406	• • • • •	M5218AP	
△	D11 - D14	11ES2	• • • • •	
△	D25	• • • • •	2W02-5008-L	
	R445,R446	RD1/6PM102J	RD1/6PM471J	
	R447,R448	• • • • •	RD1/6PM471J	

HEADPHONE BOARD ASSEMBLY

The Headphone board assemblies of PD-M430/HEM and HB types are the same as that of PD-M530/KU and PD-M435/KU types. (See page 29)

8. FOR PD-M530/KC, PD-M435/KC, HEM, HB, PD-M435-S/HEWM, PD-M430/KC, HEM AND HB TYPES

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω → 56 × 10¹ → 561 RD1/4PS 561J

47k Ω → 47 × 10³ → 473 RD1/4PS 473J

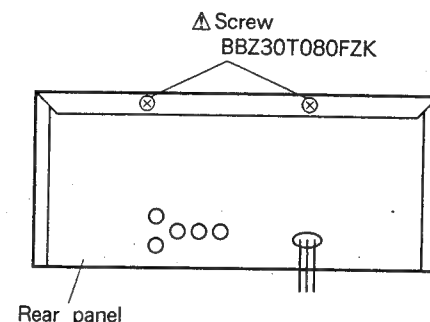
0.5 Ω → 0R5 RN2H 0R5K

1 Ω → 010 RS1P 010K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 × 10¹ → 5621 RN1/4SR 5621F

CAUTION: About the locking screw of the bonnet for the PD-M435/HB and PD-M430/HB types.



- ① As to the PD-M435/HB and PD-M430/HB types, the locking screw (Part No. BBZ30T080FZK) for install the bonnet should be used.
- ② When the locking screw is removed or tightened, use the "TORX SCREW DRIVER, SIZE T10"

8.1 FOR PD-M530/KC TYPE

CONTRAST OF MISCELLANEOUS PARTS

The PD-M530/KC type is the same as the PD-M530/KU type with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		PD-M530/KU type	PD-M530/KC type	
	CD packing case	PHG1447	PHG1449	For packing
	Operating instructions (French)	.....	PRC1026	

Note: As to the SCHEMATIC DIAGRAM and P.C. BOARDS CONNECTION DIAGRAM, refer to those of PD-M530/KU type.

8.2 FOR PD-M435/KC, HEM, HB AND PD-M435-S/HEWM TYPES

CONTRAST OF MISCELLANEOUS PARTS

The PD-M435/KC, HEM, HB and PD-M435-S/HEWM types are the same as the PD-M435/KU type with the exception of the following sections.

Mark	Symbol & Description	Part No.					Remarks
		PD-M435/KU type	PD-M435/KC type	PD-M435/HEM type	PD-M435/HB type	PD-M435-S/HEWM type	
⊙	Mother board assembly	PWM1310	PWM1310	PWM1312	PWM1312	PWM1312	For packing
Δ	Power transformer (AC120V)	PTT1124	PTT1124	.....	.....	.....
Δ	Power transformer (AC220V, 240V)	.....	.....	PTT1125	PTT1125	PTT1125
Δ	AC power cord	PDG1002	PDG1002	PDG1003	PDG1004	PDG1003	
Δ	Strain relief	CM-22C	CM-22C	CM-22B	CM-22B	CM-22B	
	CD packing case	PHG1448	PHG1444	PHG1444	PHG1444	PHG1514	
	Connection cord with mini plug	PDE-319	PDE-319	.....	.....	.....
	Leg assembly	REC-434	REC-434	.....	.....	.....
	Insulator	.....	.....	VNK1095	VNK1095	VNK1095
	Stopper	.....	.....	PNM1070	PNM1070	PNM1070
	Operating instructions (English)	PRB1124	PRB1124	.....	PRB1124	.....
	Operating instructions (French)	.....	PRC1025	.....	.....	.....
	Operating instructions (English/French/Dutch/Italian/German/Swedish/Spanish/Portuguese)	.....	.....	PRE1121	.....	PRE1121
	Display window	PAM1375	PAM1375	PAM1417	PAM1417	PAM1417	
	Headphone knob	PAC1370	PAC1370	PAC1370	PAC1370	PAC1402	
	Program button	PAC1452	PAC1452	PAC1452	PAC1452	.....
	Program button S	.....	.....	.....	.....	PAC1500
	Power button	PAC1453	PAC1453	PAC1453	PAC1453	.....
	Power button S	.....	.....	.....	.....	PAC1487
	Disc button	PAC1454	PAC1454	PAC1454	PAC1454	.....
	Disc button S	.....	.....	.....	.....	PAC1490
	Function button	PAC1455	PAC1455	PAC1455	PAC1455	.....
	Function button S	.....	.....	.....	.....	PAC1489
	Mode button	PAC1456	PAC1456	PAC1456	PAC1456	For bonnet
	Mode button S	.....	.....	.....	.....	PAC1488
	Door name plate	PAM1370	PAM1370	PAM1370	PAM1370	.....
	Door name plate S	.....	.....	.....	.....	PAM1421
	Program name plate	PAM1372	PAM1372	PAM1372	PAM1372	.....
	Program name plate S	.....	.....	.....	.....	PAM1423
	Function panel assembly	PEA1054	PEA1054	PEA1054	PEA1054	PEA1079	
	Door	PNW1532	PNW1532	PNW1532	PNW1532	.....
	Door S	.....	.....	.....	.....	PNW1751
	Bonnet	PYY1131	PYY1131	PYY1131	PYY1131	PYY1138	
Δ	Screw	.....	.....	.....	BBZ30T080FZK	.....

Note: As to the SCHEMATIC DIAGRAM and P.C. BOARDS CONNECTION DIAGRAM of PD-M435/KC type, refer to those of PD-M435/KU type.

MOTHER BOARD ASSEMBLY

The Mother board assembly (PWM1312) is the same as the Mother board assembly (PWM1310) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		PWM1310	PWM1312	
Δ	IC30	ICP-N10	
Δ	D11 - D14	11ES2	.....
Δ	D25	.....	2W02-5008-L
	D391 - D394	1SS254	.....
	R391	RD1/6PM244J	.....
	R392	RD1/6PM102J	.....
	JA391, JA392 (CONTROL IN/OUT)	PKN1004	.....
		
		
		

8.3 FOR PD-M430/KC, HEM, AND HB TYPES

PD-M435/

CONTRAST OF MISCELLANEOUS PARTS

The PD-M430/KC, HEM and HB types are the same as the PD-M430/KU type with the exception of the following sections.

Mark	Symbol & Description	Part No.				Remarks
		PD-M430 /KU type	PD-M430 /KC type	PD-M430 /HEM type	PD-M430 /HB type	
●	Mother board assembly	PWM1307	PWM1307	PWM1309	PWM1309	
	Headphone board assembly	.....	.....	Non supply	Non supply	
△	Power transformer (AC120V)	PTT1124	PTT1124	.....	.....
△	Power transformer (AC220V,240V)	.....	.....	PTT1125	PTT1125	
△	AC power cord	PDG1002	PDG1002	PDG1008	PDG1009	
△	Strain relief	CM-22C	CM-22C	CM-22B	CM-22B	
	Leg assembly	REC-434	REC-434	.....	.....
	Insulator	.....	.....	VNK1095	VNK1095	
	Stopper	.....	.....	PNM1070	PNM1070	
	Operating instructions (English)	PRB1124	PRB1124	.....	PRB1124	
	Operating instructions (French)	.....	PRC1025	.....	.....
	Operating instructions (English/French/Dutch/Italian/German/Swedish/Spainis /Portgauese)	.....	.....	PRE1121	.....
	CD packing case	PHG1445	PHG1446	PHG1446	PHG1446	For packing
	Program name plate	PAM1387	PAM1387	PAM1420	PAM1420	
	Display window	PAM1389	PAM1389	PAM1418	PAM1418	
	Headphone knob	.....	.....	PAC1370	PAC1370	
△	Screw	.....	.....	.....	BBZ30T080FZK	For bonnet

Note: As to the SCHEMATIC DIAGRAM and P.C.BOARDS CONNECTION DIAGRAM of PD-M430/KC type, refer to those of PD-M430/KU type.

MOTHER BOARD ASSEMBLY

The Mother board assembly (PWM1309) is the same as the Mother board assembly (PWM1307) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		PWM1307	PWM1309	
△	IC30	.....	ICP-N10	
	IC406	.....	M5218AP	
△	D11 - D14	11ES2	.....
△	D25	.....	2W02-5008-L	
	R445,R446	RD1/6PM102J	RD1/6PM471J	
	R447,R448	.....	RD1/6PM471J	

For bonnet

i/KC type,

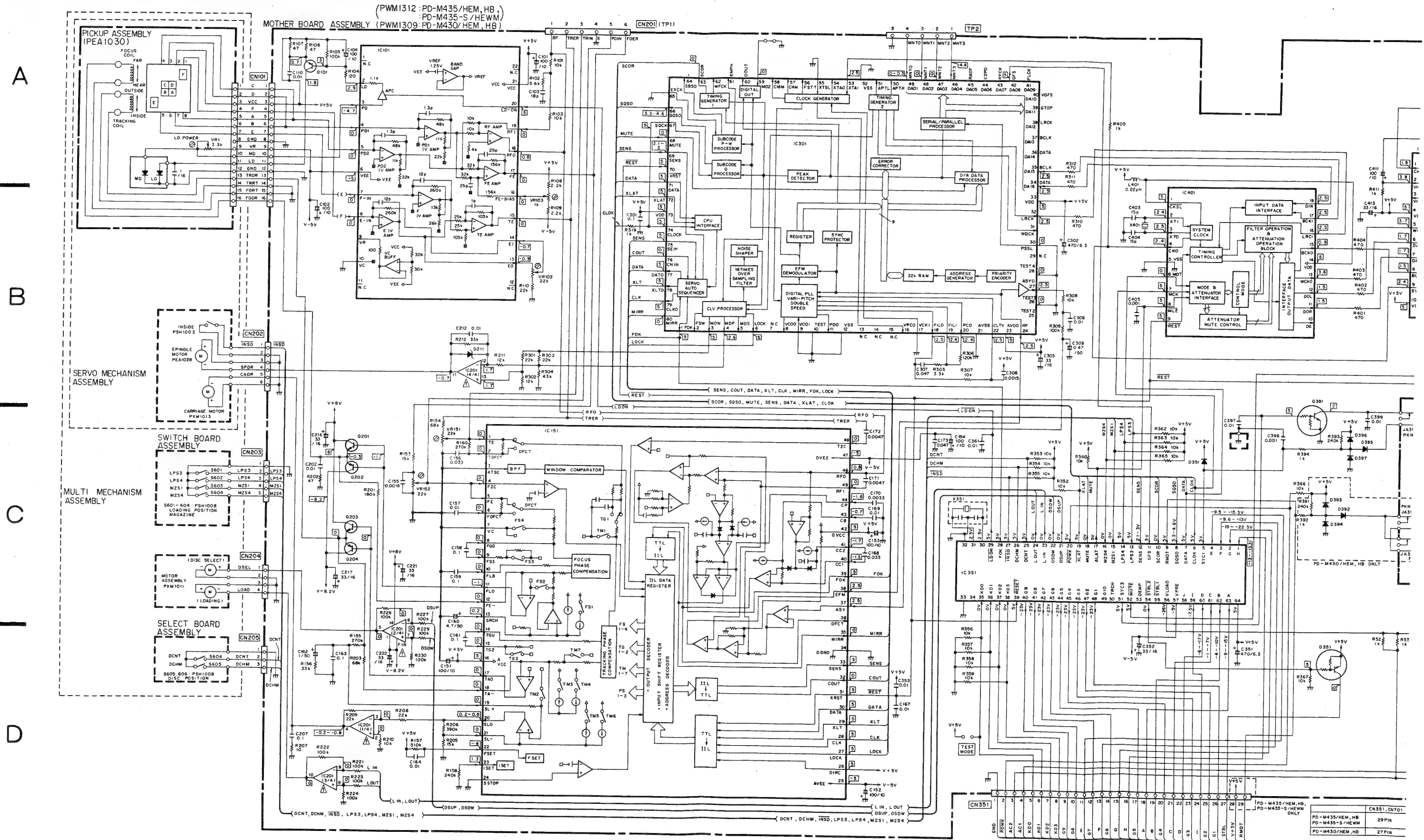
(PWM1310)

HEADPHONE BOARD ASSEMBLY

The Headphone board assemblies of PD-M430/HEM and HB types are the same as that of PD-M530/KU and PD-M435/KU types. (See page 29)

Remarks

8.4 SCHEMATIC DIAGRAM OF HEM, HB AND HEWM TYPES



8.5 P. C. BOARD PATTERN OF HEM, HB AND HEWM TYPES

PD-M435/HEM, HB, PD-M435-S/HEWM
PD-M430/HEM, HB

LINE VOLTAGE SELECTION

Line voltage can be changed with the following steps.

1. Disconnect the AC power cord.
2. Remove the bonnet.
3. Change the position of the jumper ① as follows.
(Refer to the Mother board assembly.)

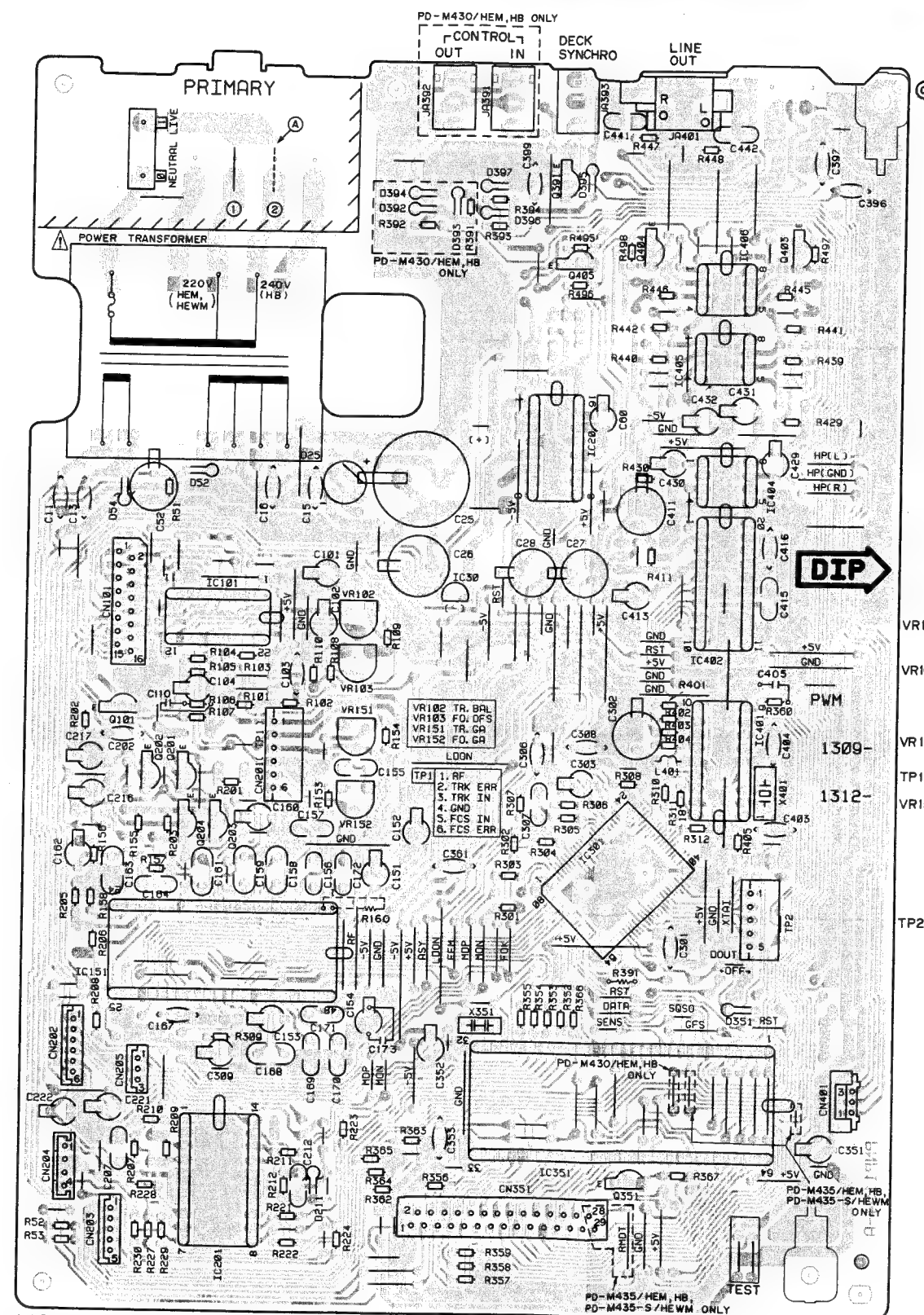
Voltage	Jumper ① position
220V	①
240V	②

4. Stick the line voltage label on the rear panel.

Part No.	Description
AAX-193	220V label
AAX-192	240V label

P.C.B. pattern diagram indication	Corresponding part symbol	Part name	P.C.B. pattern diagram indication	Corresponding part symbol	Part name
		Transistor			Ceramic capacitor
		FET			Mylar capacitor
		Diode			Styrol capacitor
		Zener diode			Electrolytic capacitor (Non polarized)
		LED			Electrolytic capacitor (Noiseless)
		Varactor			Electrolytic capacitor (Polarized)
		Tact switch			Power capacitor
		Inductor			Semi-fixed resistor
		Coil			Resistor array
		Transformer			Resistor
		Filter			Resonator
					Thermistor

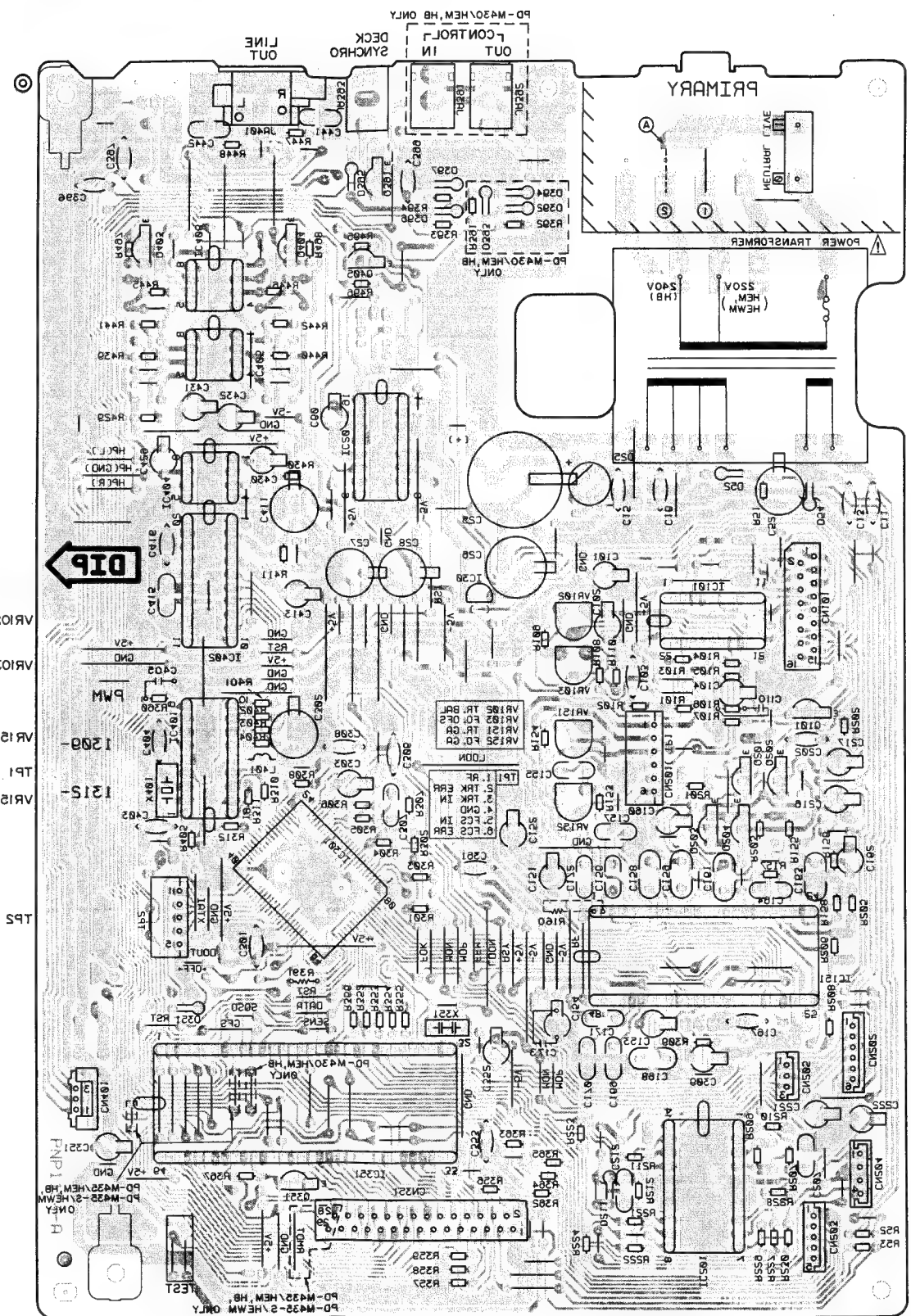
1. This P.C.B. connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the above Table.
3. The capacitor terminal marked with shows negative terminal.
4. The diode marked with shows cathode side.
5. The transistor terminal marked with shows emitter.



MOTHER BOARD ASSEMBLY
(PWM1312 : PD-M435/HEM, HB, PD-M435-S/HEWM)
(PWM1309 : PD-M430/HEM, HB)

Component	Pin Count
PD-M435/HEM, HB, PD-M435-S/HEWM/KU	29 pins
PD-M430/HEM, HB	27 pins

This P.C.B. connection diagram is viewed from the foil side.



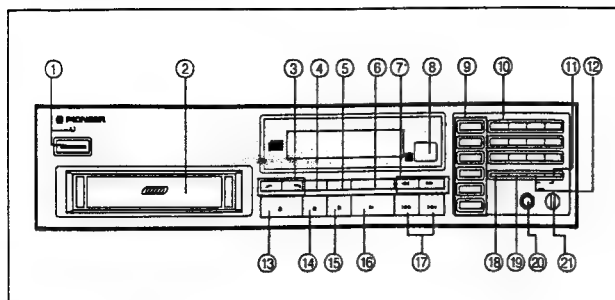
MOTHER BOARD ASSEMBLY
(P.W.M1308 : PD-W430\HEM, HB)
(P.W.M1315 : PD-W435\HEM, HB, PD-W432-2\HEWM)

PD-W430\HEM, HB	S2 pins
PD-W432-2\HEWM, HB	S4 pins
PD-W435\HEM, HB	CN321

PD-W430\HEM, HB
PD-W432-2\HEWM, HB

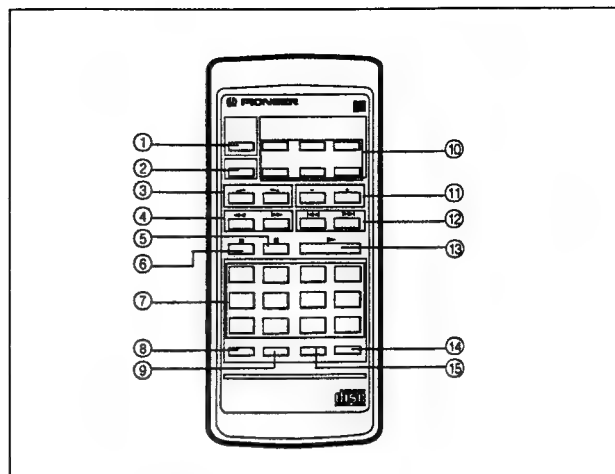
9. PANEL FACILITIES

9.1 PD-M530



FRONT PANEL

- ① **POWER STANDBY/ON switch and indicator**
- ② **Magazine insertion slot**
- ③ **AUTO FADER buttons**
- ④ **TIME button**
- ⑤ **REPEAT button**
- ⑥ **RANDOM PLAY button**
- ⑦ **MANUAL SEARCH buttons (◀◀/▶▶)**
- ⑧ **Remote sensor**
Receives the signal from the remote control unit.
- ⑨ **DISC NUMBER buttons (DISC 1 - DISC 6)**
- ⑩ **TRACK NUMBER/Digit buttons (1-10, +10, ≥20)**
- ⑪ **TIME FADE EDIT button**
- ⑫ **COMPU PGM EDIT button**
- ⑬ **EJECT button (▲)**
- ⑭ **STOP/CLEAR button (■)**
- ⑮ **PAUSE button (||)**
- ⑯ **PLAY button (▶)**
- ⑰ **TRACK search buttons (◀◀/▶▶)**
- ⑱ **PGM button**
- ⑲ **DELETE button**
- ⑳ **Headphones jack (PHONES)**
- ㉑ **Headphones volume (PHONES LEVEL)**



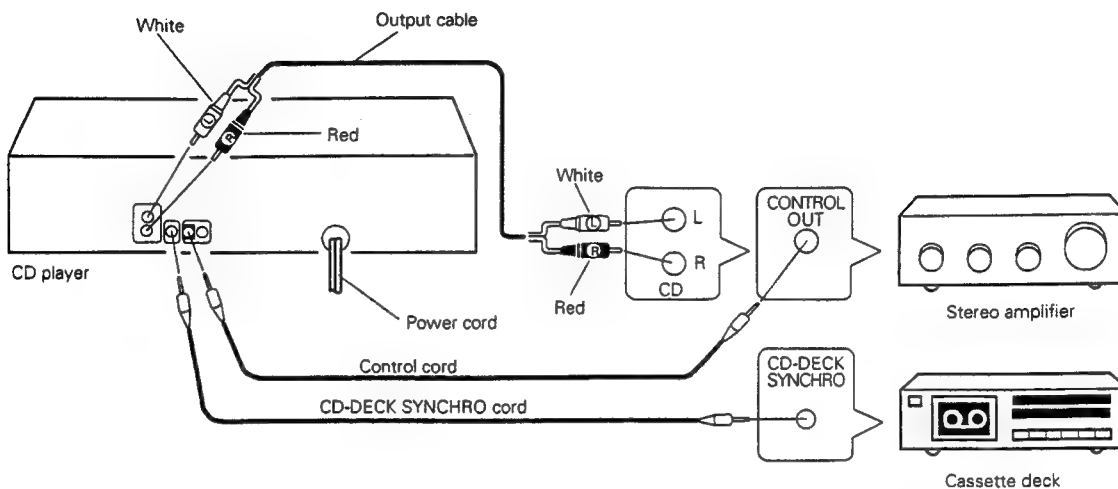
REMOTE CONTROL UNIT

Remote control buttons with the same names or marks as buttons on the front panel of the player control the same operations as the corresponding front panel buttons.

- ① **POWER button**
- ② **RANDOM PLAY button**
- ③ **FADE-IN/FADE-OUT buttons**
- ④ **MANUAL search buttons (◀◀/▶▶)**
- ⑤ **PAUSE button (||)**
- ⑥ **STOP button (■)**
- ⑦ **Track number/Digit buttons (1-10, +10, ≥20)**
- ⑧ **PGM button**
- ⑨ **CHECK button**
- ⑩ **DISC NUMBER buttons (1 - 6)**
- ⑪ **OUTPUT LEVEL buttons (+/-)**
- ⑫ **TRACK search buttons (◀◀/▶▶)**
- ⑬ **PLAY button (▶)**
- ⑭ **DELETE button**
- ⑮ **CLEAR button**

CONNECTIONS

- Make sure that all of the components are turned off before making connections.



Making connections

- 1 Connect the OUTPUT jacks of this unit to the input jacks (CD or AUX) of the amplifier. Make sure that the white plugs are connected to the left (L) jacks and the red plugs to the right (R) jacks.
- Be sure not to connect this unit to the amplifier's PHONO jacks, as sound will be distorted and normal playback will not be possible.
- 2 Connect the power cord to a household AC wall outlet or an AC outlet on your amplifier.
- Make sure plugs are inserted fully into the jacks and wall outlet.

CD-Deck synchro function

If you have a Pioneer cassette deck provided with the CD-Deck synchro function, connect the CD-DECK SYNCHRO jacks of the CD player and cassette deck. With this function, synchro recording can be carried out between player and deck.

- For details on connections and operation, refer to the instruction manual supplied with the cassette deck.
- The CD-DECK SYNCHRO cord is not supplied with the CD player.

System remote control with a Pioneer stereo amplifier that has the SR mark

(Available with U.S. and Canadian models only)

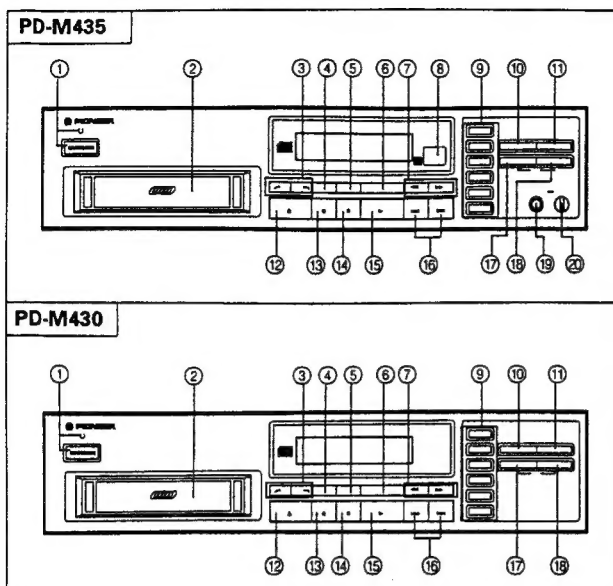
When a Pioneer stereo amplifier bearing the SR mark is used, connect the CONTROL IN jack on the rear panel of the CD player to the CONTROL OUT jack of the amplifier. This will enable the CD player to be controlled using the remote control unit supplied with the stereo amplifier. If you do not plan to use this feature, it is not necessary to connect CONTROL IN/OUT jacks.

- The control cord is supplied with the CD player.
- The remote control unit supplied with the amplifier can be used to control Play, Stop, Pause, Track/Disc Search and Disc Change operations.
- For instructions regarding connections and operation, refer to the operating instruction manual provided with your stereo amplifier.

NOTES:

- When a control cord is connected to the player's CONTROL IN jack, direct control of the player with the remote control unit is not possible. Operate the player with the remote control unit by aiming it at the amplifier.
- Be sure to connect both of the control cord's plugs securely to the CONTROL IN and CONTROL OUT terminals. Do not connect only one end of the cable.

9.2 PD-M435 AND PD-M430

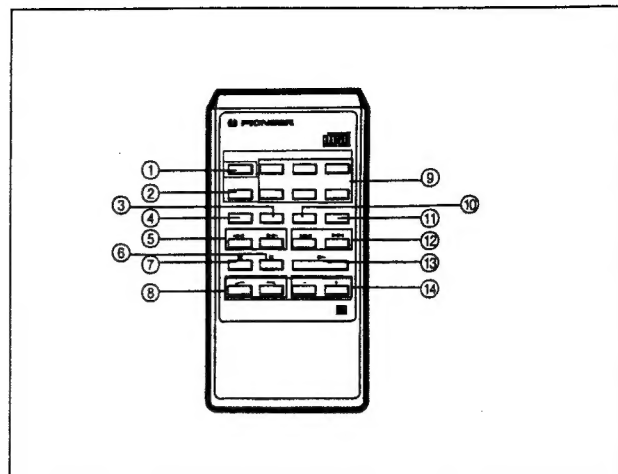


FRONT PANEL

- ① **POWER STANDBY/ON switch and indicator**
- ② **Magazine insertion slot**
- ③ **AUTO FADER buttons**
- ④ **TIME button**
- ⑤ **REPEAT button**
- ⑥ **RANDOM PLAY button**
- ⑦ **MANUAL SEARCH buttons (◀◀/▶▶)**
- ⑧ **Remote sensor (PD-M435 only)**
Receives the signal from the remote control unit.
- ⑨ **DISC NUMBER buttons (DISC 1 - DISC 6)**
- ⑩ **PROGRAM button**
- ⑪ **DELETE button**
- ⑫ **EJECT button (▲)**
- ⑬ **STOP/CLEAR button (■)**
- ⑭ **PAUSE button (||)**
- ⑮ **PLAY button (▶)**
- ⑯ **TRACK search buttons (|◀◀/▶▶|)**
- ⑰ **COMPU PGM EDIT button**
- ⑱ **TIME FADE EDIT button**
- ⑲ **Headphones jack (PHONES)**
- ⑳ **Headphones volume (PHONES LEVEL)**

NOTE:

Items ⑱ and ⑳ are included on the U.K. and European models of the PD-M430.



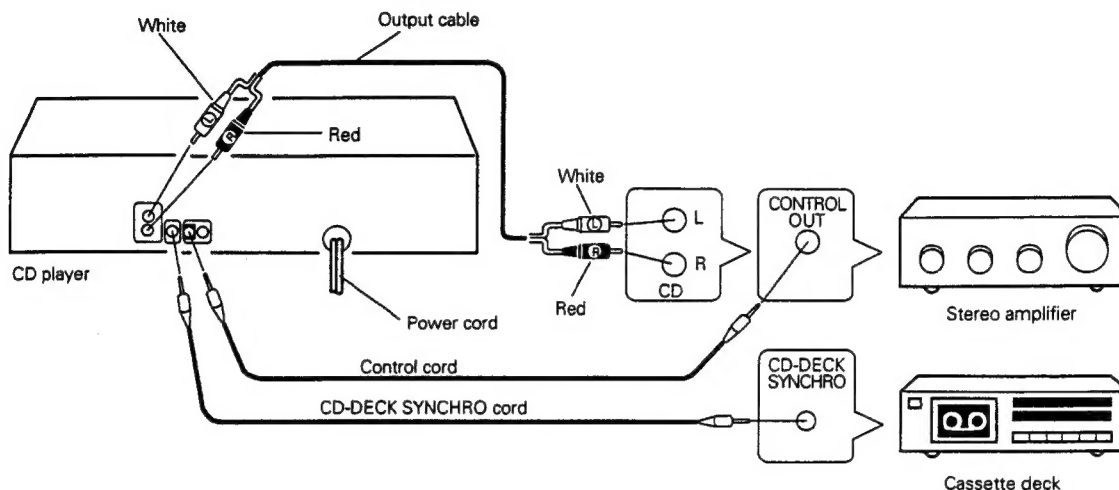
REMOTE CONTROL UNIT (PD-M435 only)

Remote control buttons with the same names or marks as buttons on the front panel of the player control the same operations as the corresponding front panel buttons.

- ① **POWER button**
- ② **RANDOM PLAY button**
- ③ **CHECK button**
- ④ **PGM button**
- ⑤ **MANUAL search buttons (◀◀/▶▶)**
- ⑥ **PAUSE button (||)**
- ⑦ **STOP button (■)**
- ⑧ **FADE-IN/FADE-OUT buttons**
- ⑨ **DISC NUMBER buttons (1 - 6)**
- ⑩ **CLEAR button**
- ⑪ **DELETE button**
- ⑫ **TRACK search buttons (|◀◀/▶▶|)**
- ⑬ **PLAY button (▶)**
- ⑭ **OUTPUT LEVEL buttons (+/-)**

CONNECTIONS

- Make sure that all of the components are turned off before making connections.



Making connections

- 1 Connect the OUTPUT jacks of this unit to the input jacks (CD or AUX) of the amplifier. Make sure that the white plugs are connected to the left (L) jacks and the red plugs to the right (R) jacks.
- Be sure not to connect this unit to the amplifier's PHONO jacks, as sound will be distorted and normal playback will not be possible.
- 2 Connect the power cord to a household AC wall outlet or an AC outlet on your amplifier.
- Make sure plugs are inserted fully into the jacks and wall outlet.

CD-Deck synchro function

If you have a Pioneer cassette deck provided with the CD-Deck synchro function, connect the CD-DECK SYNCHRO jacks of the CD player and cassette deck. With this function, synchro recording can be carried out between player and deck.

- For details on connections and operation, refer to the instruction manual supplied with the cassette deck.
- The CD-DECK SYNCHRO cord is not supplied with the CD player.

System remote control with a Pioneer stereo amplifier that has the **SR** mark

(Available with the PD-M430 and U.S. and Canadian models of the PD-M435 only)

When a Pioneer stereo amplifier bearing the **SR** mark is used, connect the CONTROL IN jack on the rear panel of the CD player to the CONTROL OUT jack of the amplifier. This will enable the CD player to be controlled using the remote control unit supplied with the stereo amplifier. If you do not plan to use this feature, it is not necessary to connect CONTROL IN/OUT jacks.

- The control cord is supplied with the CD player.
- The remote control unit supplied with the amplifier can be used to control Play, Stop, Pause, Track/Disc Search and Disc Change operations.
- For instructions regarding connections and operation, refer to the operating instruction manual provided with your stereo amplifier.

NOTES:

- When a control cord is connected to the player's CONTROL IN jack, direct control of the player with the remote control unit is not possible. Operate the player with the remote control unit by aiming it at the amplifier.
- Be sure to connect both of the control cord's plugs securely to the CONTROL IN and CONTROL OUT terminals. Do not connect only one end of the cable.

10. SPECIFICATIONS

10.1 PD-M530

1. General

Type Compact disc digital audio system

Power requirements

European models AC 220 V, 50/60 Hz

U.K., Australian models AC 240 V, 50/60 Hz

U.S., Canadian models AC 120 V, 60 Hz

Other models AC 110/120 - 127/220/240 V
(switchable) 50/60 Hz

Power consumption

European, U.K., Australian, 10W

U.S., Canadian models 10W

Other models 10W

Operating temperature +5°C - +35°C
+41°F - +95°F

Weight 4.6 kg (10 lb, 3 oz)

External dimensions 420(W) X 326(D) X 104(H) mm
16-9/16(W) X 12-27/32(D) X 4-1/8(H) in

2. Audio section

Frequency response 2 Hz - 20 kHz

S/N ratio 106 dB or more (EIAJ)

Dynamic range 92 dB or more (EIAJ)

Channel separation 98 dB or more (EIAJ)

Harmonic distortion 0.04% or less (EIAJ)

Output voltage 2.0V

Wow and flutter Limit of measurement ($\pm 0.001\%$ W.PEAK)
or less (EIAJ)

Channels 2-channel (stereo)

3. Output terminal

Audio line output

Headphone jack with volume control

Control input/output jacks (Equipped with U.S. and Canadian models only)

CD-DECK SYNCHRO jack

4. Functions

Number of discs to be stored - maximum 6.

Basic operation buttons

- PLAY, PAUSE, STOP

Search function

- Disc Search
- Track Search
- Manual Search

Programming

- Maximum 32 steps
- Pause
- Program check/Correction (remote control unit)
- Program CLEAR (single track or all tracks)

Repeat functions

- 1 track repeat
- All discs repeat
- Program repeat
- Random play repeat
- Delete play repeat
- Delete random play repeat

Random play

- Random play (repeat also available)
- Delete random play (repeat also available)

Switching display

- Time consumed, remaining time (track/disc), and total time

Timer start

Digital Level Controller

Volume control can be done with the remote control unit.

One-touch Fade

Fade-in and fade-out possible.

Time Fade Editing

Selects the tracks for one side of the tape within the specified time.

Compu Program Editing


Selects the tracks for both sides of the tape within the specified time.

5. Accessories

- Remote control unit 1
- Size AAA/R03/dry batteries 2
- Six-compact-disc magazine 1
- Output cable 1
- Control cord 1
- (U.S. and Canadian models only)
- Operating instructions 1

NOTE:

Specifications and design subject to possible modification without notice, due to improvements.

The Magazine Type Multi-Play CD Players with  mark and the Magazines with the same mark are compatible for 5-inch (12cm) discs

10. 2 PD-M435 AND PD-M430

1. General

Type	Compact disc digital audio system
Power requirements	
European models	AC 220 V, 50/60 Hz
U.K., Australian models	AC 240 V, 50/60 Hz
U.S., Canadian models	AC 120 V, 60 Hz
Other models	AC 110/120 - 127/220/240 V (switchable) 50/60 Hz
Power consumption	
European, U.K., Australian, U.S., Canadian models	10W
Other models	10W
Operating temperature	+5°C - +35°C +41°F - +95°F
Weight	4.6 kg (10 lb, 3 oz)
External dimensions	
U.K., European models	420(W) X 326(D) X 104(H) mm 16-9/16(W) X 12-27/32(D) X 4-1/8(H) in
Other models	420(W) X 326(D) X 94(H) mm 16-9/16(W) X 12-27/32(D) X 3-23/32(H) in

2. Audio section

Frequency response	2 Hz - 20 kHz
S/N ratio	106 dB or more (EIAJ)
Dynamic range	92 dB or more (EIAJ)
Channel separation	98 dB or more (EIAJ)
Harmonic distortion	0.04% or less (EIAJ)
Output voltage	2.0V
Wow and flutter	Limit of measurement ($\pm 0.001\%$ W.PEAK) or less (EIAJ)
Channels	2-channel (stereo)

3. Output terminal

Audio line output
Headphone jack with volume control (PD-M435 and U.K. and European models of the PD-M430 only)
Control input/output jacks (Equipped with the PD-M430 and U.S. and Canadian models of the PD-M435 only)
CD-DECK synchro jack

4. Functions

Number of discs to be stored - maximum 6.

Basic operation buttons
● PLAY, PAUSE, STOP

Search function
● Disc Search
● Track Search
● Manual Search

Programming
● Maximum 32 steps
● Pause
● Program check/Correction (remote control unit supplied with the PD-M435 only)
● Program CLEAR (single track or all tracks)

Repeat functions
● 1 track repeat
● All discs repeat
● Program repeat
● Random play repeat
● Delete play repeat
● Delete random play repeat

Random play

- Random play (repeat also available)
- Delete random play (repeat also available)

Switching display

- Time consumed, remaining time (track/disc), and total time

Timer start

Digital Level Controller (PD-M435 only)

Volume control can be done with the remote control unit.

One-touch Fade

Fade-in and fade-out possible.

Time Fade Editing

Selects the tracks for one side of the tape within the specified time.

Compu Program Editing


Selects the tracks for both sides of the tape within the specified time.

5. Accessories

- Remote control unit (PD-M435 only) 1
- Size AAA/R03/dry batteries (PD-M435 only) 2
- Six-compact-disc magazine 1
- Output cable 1
- Control cord 1
- (PD-M430 and U.S. and Canadian models of the PD-M435 only)
- Operating instructions 1

NOTE:

Specifications and design subject to possible modification without notice, due to improvements.

The Magazine Type Multi-Play CD Players with  mark and the Magazines with the same mark are compatible for 5-inch (12cm) discs